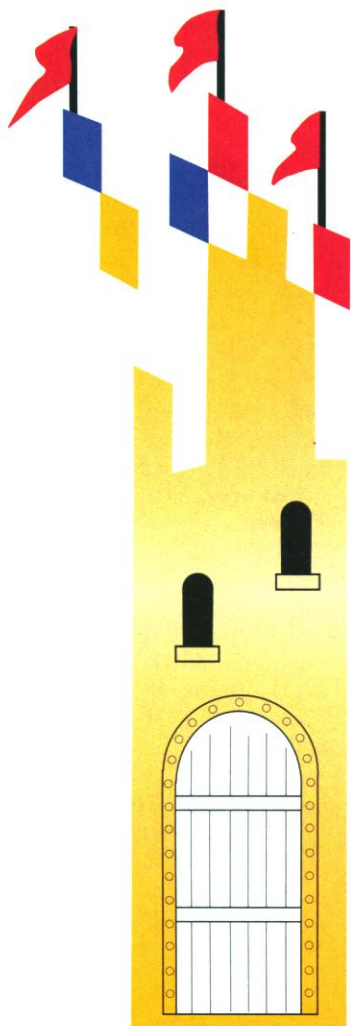


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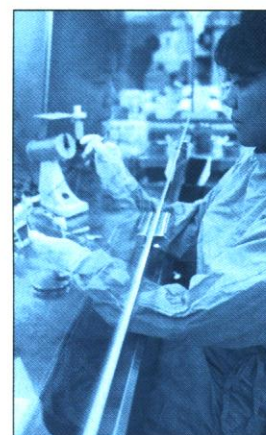
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MacroSpin Solid Phase Extraction (SPE) Column Kits are for the separation and purification of micro-liter-size samples.

PRODUCTS

These unique kits contain columns that can be spun in a centrifuge or used on a vacuum manifold. The kits include 100 columns and 2-ml cups and are designed for sample volumes of 50 μ l to 150 μ l. **The Nest Group.** For information call 800-347-6378 or circle 139 on the Reader Service Card.

DNA Gel Image Scoring

Scoring gel patterns for sex typing, expression, or screening is difficult using film photos, especially with high-density gels of 100 or 300 samples. The new scoring function in AlphaEase gel image analysis software makes this task easier in three ways. Nine automatic enhancement settings bring out the faintest bands for more positive visibility. Digital filters separate close-running bands and differentiate weak bands. Scoring aids such as adjustable templates position quickly so each lane is highlighted with only a few clicks, even with centipede gels.

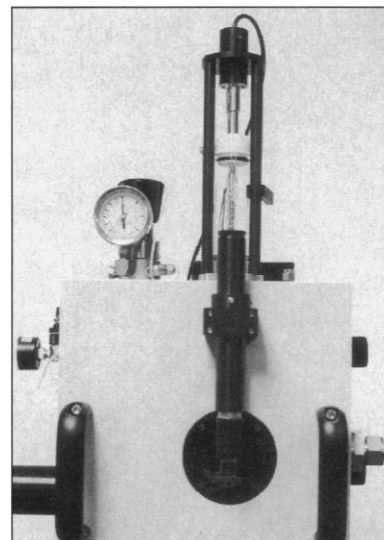
Data output is in table form, suitable for spreadsheet use. **Alpha Innotech.** For information call 800-795-5556 or circle 140 on the Reader Service Card.

Chemiluminescence Detection System

The Lumi-Imager Workstation allows the user to visualize, quantify, and analyze experiments without the use of x-ray film. The automated analysis of nucleic acids or proteins from blots or microtiter plates is as easy as placing them in the sample drawer, setting the exposure time, and analyzing the results with the software provided. **Boehringer Mannheim.** For information call 800-428-5433 or circle 141 on the Reader Service Card.

Real-Time LC/FTIR System

A new liquid chromatograph/Fourier transform infrared (LC/FTIR) system operates in real time by passing the output of the LC through an ultrasonic nebulizer to a desolvation tube and using a vacuum chamber to evaporate the solvent. The residue from each peak is deposited onto a moving



Zn/Se window. The FITR, the sample beam of which is focused on the window, creates a spectrum for each peak. The LC/FITR can classify or even identify the components of each chromatographic peak. For this reason, it can serve as a supplement or even an alternative to the well-established technique of LC/mass spectrometry. For example, IR is probably the best method for identifying which of several isomers are contained in a particular peak. **Bourne Scientific.** For information call 617-965-0401 or circle 142 on the Reader Service Card.

384- and 1536-Well Microplates

The Greiner 384-well microplate contains four times as many wells as a 96-well plate, and the 1536-well microplate contains 16 times as many, reducing the working volume per well, minimizing reagent and media consumption, and saving time and money when screening a large number of compounds. The standard size allows use with manual or multi-channel precision automated and robotic liquid handling and detection systems. The plates are available in clear polystyrene, as well as opaque white and black with clear bottoms for optimal luminescence and fluorescence detection using transmitted light. **Greiner America.** For information call 407-333-2800 or circle 143 on the Reader Service Card.

Antibody Screening Device

This device eliminates the tedious conventional method of cutting blots into strips to perform antibody identifications. Surf-Blot models are available with 21 or 33 channels and can be easily loaded using an 8- or 12-



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place pipettor. Antibody screening can be performed on as little as 100 μ l of antibody. **Research Products International.** For information call 847-635-7330 or circle 144 on the Reader Service Card.

Electronically Controlled Manual Pipetting

The Repeater Pro is an electronically controlled repetitive manual dispenser. Motorized repetitive pipetting presents the smallest resistance, thereby reducing the risk of wrist and hand stress. The volume range is 1 μ l to 50 ml. Five speed settings for aspiration and dispensing allow for complete control for different reagents and for individual pipetting styles. **Brinkmann Instruments.** For information call 516-334-7500 or circle 145 on the Reader Service Card.

Documentation System for Big Gels

The BGI-4500 "Big Gel Imager" provides complete documentation, archiving, and analysis of gels up to 20 cm by 40 cm in a benchtop darkroom cabinet. The system includes a darkroom cabinet, integrating charge-coupled device camera, motorized zoom lens, 256-grayscale thermal printer, frame grabber, and software. With the optional Ultra-Glo, a patent-pending ultraviolet to visible light converter, the BGI-4500 can image both ultraviolet and visible stains on the same surface. **Ultra-Lum.** For information call 562-529-5959 or circle 146 on the Reader Service Card.

Parallel Synthetic Chemistry Workstation

The MaxiReactor parallel synthetic chemistry workstation for multigram scale reactions holds six reaction vessels with a maximum volume of 500 ml and a working volume of 400 ml. Each vessel has independently controlled heating and magnetic stirring. The MaxiReactor can be controlled manually or with a computer for temperature and stirring programs. Applications include solid-phase resin preparation, process research, and chemical scaffold synthesis. **RoboSynthon.** For information call 415-244-0799 or circle 147 on the Reader Service Card.

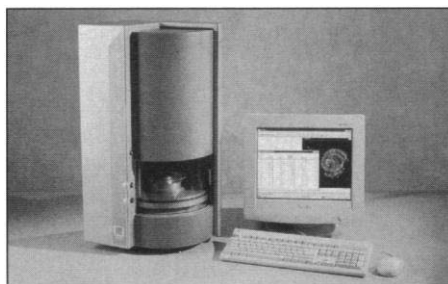
Plasmid Purification

NucleoBond is a patented anion exchange resin for high-quality plasmid purification. The plasmid DNA purified can be used in

demanding applications such as transfection, cloning, and sequencing. NucleoBond's resolving power is derived from a unique functional group that permits more efficient binding of nucleic acids. A proprietary manufacturing process produces beads with a narrow size distribution and large pores. **CLONTECH Laboratories.** For information call 800-662-2566 or circle 148 on the Reader Service Card.

Fast Tritium Detection

The Micro Imager beta detection system detects tritium in tissue sections and in situ hybridization experiments up to 50 times faster than film. The system achieves a spatial resolution of 15 μ m and is also capable of dual isotope detection. It can simultaneously



detect tritium and another isotope in the same sample, thus eliminating the error when overlaying two samples. Applications include immunocytochemistry, receptor-ligand binding assays, and metabolic tracer experiments. **Bio Image.** For information call 313-930-9900 or circle 149 on the Reader Service Card.

Literature

TopCount NXT: The Next Generation of Microplate Scintillation and Luminescence Counters highlights the features of this instrument, including a Windows NT 32-bit operating system and analysis software, an open database system for data storage and recall, an Assay Wizard to simplify assay setup and editing, and per-assay detector uniformity technology. **Packard.** For information call 800-323-1891 or circle 150 on the Reader Service Card.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned in Tech.Sight is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. Postage is free.

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The following organizations have placed full-page recruitment advertisements in the special advertising supplement in this issue beginning on page 886.

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Careers for Women in the Biotechnology & Pharmaceuticals Industries



by Michael Woods

Emisphere Technologies

Baxter Healthcare

Association for Women in Science

CH2M HILL

Northwestern University

What's the employment situation like for women in science with a new century two years away?

Study after study tells the same story of big but uneven gains in both education and employment. The numbers of women getting science degrees, and taking jobs in industrial science and academe, are increasing every year. But women are still under-represented in science careers. Most still get degrees and work in the social sciences.

Women still are scarce in upper-management positions.

But employers are responding with innovative approaches to that persistent problem of retaining female scientists. The women we spoke with have shown ingenuity in sustaining highly productive careers while shouldering family responsibilities.

Here's the view of women in science at Emisphere Technologies, Inc., Northwestern University, Association for Women in Science, CH2M HILL, and Baxter Healthcare's Hyland Division.

EMISPHERE TECHNOLOGIES ANDREA LEONE-BAY: "WORK HARD...GET RESULTS..."

Andrea Leone-Bay has witnessed changing attitudes toward female scientists for more than 15 years, from sharply different perspectives: two big, well-established companies and a new start-up.

Leone-Bay's Ph.D. in organic photochemistry in 1979 from Texas A&M University led to an NIH postdoctoral fellowship at Ohio State. She has published 31 papers and is an inventor on 41 patents. Then came R&D jobs in industry. In 1993, she moved to Emisphere

Technologies and is currently a senior director of chemistry. Leone-Bay heads an Emisphere research team. It designs and synthesizes compounds that facilitate the oral absorption of drugs like heparin and insulin that currently can only be given by injection.

Small start-up biopharmas, she found, are making surprising progress in recruiting, retaining, and advancing female scientists.

"It was a tremendous shock," said Leone-Bay. "We interact with many other start-ups, and a lot of the upper management are women. It seems to be about half, in some cases."

What special programs help them attract female scientists? Emisphere, for one, has no gender-specific policies. It seeks the most qualified individual, male or female. But Leone-Bay says Emisphere tries to accommodate employee family-responsibility needs on an individual basis.

The youthful corporate culture at many start-ups encourages such flexibility, according to Leone-Bay.

"Our upper management are young. They have kids in school, too. They want everyone to have the flexibility to balance work and career responsibilities."

How can a female scientist get on the fast track to a management position? "Work hard," says Leone-Bay. "And I mean work hard, as hard as you possibly can. When you're assigned a project, get results in a timely fashion, and be sure they're accurate. Just do the job."

Female scientists also shouldn't hesitate to make sure the boss recognizes good performance. "You have to be assertive, and blow your own horn sometimes. But be sure to give credit to coworkers. A lot of people don't realize that being a good manager is not doing the job, but getting the job done."



Andrea Leone-Bay

continued ►

Michael Woods writes frequently on the biotechnology and pharmaceutical industries.

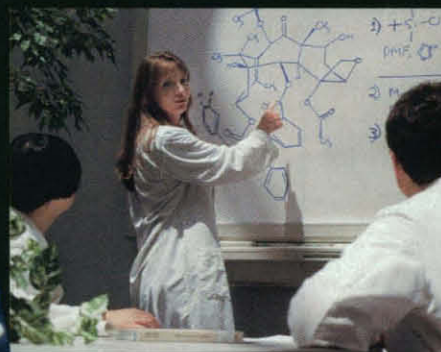


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CARDIOVASCULAR Electrophysiology

Positions available for B.S./M.S. scientists with at least two years of academic or industrial experience in the areas of physiology, pharmacology or biophysics of ion channels. The ideal candidates will have broad skills in ion channel research and computer-based data acquisition. Experience with primary culture of cardiac cells, transient or permanent expression of proteins in cell lines or the *Xenopus* Oocyte expression system would be preferred. Knowledge of fluorescence microscopy would also be desirable. Code: PRTG6MK

ONCOLOGY Endocrine Oncology

M.D. or Ph.D. with knowledge of molecular and cellular biology and biochemistry to work on endocrine hormone-dependent tumors. Drug discovery experience preferred. Code: PRTG6RW

METABOLIC BONE DISEASE

B.S./M.S./Ph.D. scientists with expertise in biochemistry, cell biology, molecular biology or physiology to identify and characterize novel targets and to identify and optimize lead compounds for known targets to treat metabolic bone disease. Code: PRSM6JW

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INFECTIOUS DISEASES Molecular Virology/Biochemistry

Candidates should have a Ph.D. in Molecular Biology, Virology or Biochemistry and previous postdoctoral experience. Successful candidates will conduct independent research to define novel targets for antiviral intervention, participate in the design and/or identification of antiviral leads and collaborate with other research groups for the development of drug candidates. Code: PRHD6PL

Associate Research Scientists

Candidates should have a B.S./M.S. degree and previous experience in a research laboratory. Successful candidate will participate in antiviral drug discovery research. Proficiency with standard molecular biological and cell culture techniques is expected. Additional experience in biochemistry, enzymology, protein purification or recombinant protein expression is preferred. Code: PRHD6SW

NEUROSCIENCES - UROLOGICAL DISORDERS

Ongoing expansion has created opportunities for experienced Research Investigators (Ph.D. or M.D.) and Research Associates (B.S. or M.S.) to work in the area of Urological Disorders. Successful candidates will join the newly formed Smooth Muscle Department in the Neurosciences Drug Discovery division.

Research Investigators

A Ph.D. in Pharmacology or Physiology with a minimum of 2 years post-doctoral experience is required for senior level positions to supervise B.S./M.S. level scientists and to guide drug discovery efforts in the area of Urological disorders. Successful candidates will have considerable experience with in vitro and/or in vivo smooth muscle techniques, preferably with a strong emphasis in urogenital smooth muscle physiology/pharmacology. Code: PRRH6NL1

Research Associates

B.S. or M.S. scientists with a minimum of 2 years relevant experience are sought to develop and apply various in vitro or in vivo smooth muscle assays for the identification and characterization of compounds in support of our drug discovery efforts in the area of Urological Disorders. Experience with in vitro techniques such as single cell electrophysiology, fluorescence assays, tissue culture or force measurements would be useful. Alternatively, candidates will have considerable experience in surgical techniques involved with urogenital models. A strong background in pharmacology/physiology is an asset. Code: PRRH6NL2

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Ph.D. Research Scientist - In Vitro

Supervise the development and characterization of reagents and technologies for the *in vitro* study of drug metabolism mechanisms, including the identification, acquisition and development of new *in vitro* technologies. Will also have significant responsibility for the correct application of *in vitro* metabolism techniques. Ph.D. or equivalent degree in Chemistry, Biochemistry, or a related field in the biological sciences is required. Relevant postdoctoral experience in cytochrome P450 and/or UGT biochemistry, pharmacokinetics and industrial drug discovery preferred.

Job Code: 2464

Ph.D. Research Scientist

Work in a project area with a multidisciplinary team including Chemists, Biologists, and Clinicians where pharmacokinetics and drug metabolism input is essential to the discovery and development of new drugs. Ph.D. or equivalent degree in Chemistry, Biochemistry, or a related field in the biological sciences is required. Experience in pharmacokinetics, drug metabolism, analytical chemistry, chromatographic methods, and *in vitro* metabolism studies and practical experience with bioanalytical methods and biotransformation of drugs preferred.

Job Code: 2465

BS/MS Scientist - In Vitro

As a member of a core technology group, you will develop and apply *in vitro* techniques to the study of drug metabolism, using high-throughput drug metabolism technologies. You will also play a major role in the investigation of drug-drug interactions and key drug metabolism issues for advanced drug candidates. Degree in Biochemistry or a related field in the biological sciences is required. Significant experience in *in vitro* drug metabolism studies with mammalian enzymes, enzyme kinetics and microsome preparation/characterization is preferred.

Job Code: 2466

BS/MS Scientist

As a member of a multidisciplinary laboratory, working in both the preclinical and development phases of novel drug discovery, you will conduct *in vivo* and *in vitro* drug metabolism and pharmacokinetic studies through the use of *in vitro* metabolism and absorption studies, *in vivo* administration of drugs, collection of biological samples, and development/utilization of bioanalytical methods for monitoring drugs and metabolites using state-of-the-art technology. Degree in Biochemistry, Chemistry or a pharmaceutical science is required. Experience in HPLC, LC/MS and/or *in vitro* metabolism techniques (microsomes, slices and recombinant enzymes) preferred.

Job Code: 2467

NEUROSCIENCE

Ph.D. Research Scientist - In Vitro/In Vivo

Evaluate the success, feasibility and implementation of approaches to treatment of neurodegenerative diseases, and develop and implement *in vitro/in vivo* models of neurodegenerative diseases. Ph.D. plus 3 years' postdoctoral training required; industrial experience and strong publication record preferred.

Job Code: 2463

METABOLIC DISEASES

BS/MS Scientist

Establish and run *in vitro* and *in vivo* biochemical and physiological assays to identify new candidates in skeletal muscle anabolism, and process and order tissue. Degree in Physiology, Biochemistry or a related biological science and molecular biology skills are required. Two years' biological laboratory and pharmaceutical research experience in a drug discovery laboratory is desirable.

Job Code: 2473

MEDICINAL CHEMISTRY

BS/MS/Ph.D. Scientist

Qualified candidates will have a degree in a relevant field and a strong theoretical background in synthetic organic chemistry, including advanced courses. Knowledge and experience in isolation, separation, organic reaction mechanisms, and identification techniques utilizing IR, NMR, and Mass Spectroscopy are required. Research experience, particularly in undergraduate research, is highly desirable.

Job Code: 2474

COMPUTATIONAL CHEMISTRY

Ph.D. Scientist

Facilitate efforts in combinatorial chemistry, chemical diversity, pharmacophore development, lead optimization and structure-assisted drug design while working directly with synthetic chemists. A Ph.D., 3+ years' computation chemistry, strong programming skills and ability to work in UNIX environment are required.

Job Code: 2475

MOLECULAR SCIENCES

Ph.D. Research Scientist - Molecular Immunology

Supervise a new laboratory focused on hematopoiesis and immune regulation in cancer using molecular biology techniques to identify and validate novel targets and generate new screens and cell based assays. Ph.D. and three plus years' postdoctoral experience in relevant field with strong publication record and strong background in molecular techniques, protein expression, cell culture and computer analysis of nucleic acid sequences required.

Job Code: 2468

BS/MS Scientist - Molecular Immunology

Perform and interpret experimental protocols and results, and enter data into appropriate computer programs for statistical analysis, graphing and archiving in a laboratory focused on hematopoiesis and immune regulation in cancer. Degree in Molecular Biology or Biochemistry, and DNA cloning, protein biochemistry, and tissue culture experience required. Ability to dissect novel signaling pathways preferred.

Job Code: 2469

BS/MS Scientist - Atherosclerosis

Working with the disease team, assist in the identification and molecular characterization of potential therapeutic agents. Also develop and construct molecular tools and assays, and independently design experiments and evaluate results. Degree in Biological Sciences, 3+ years' laboratory experience, and DNA/RNA isolation and analysis required. Vector design and construction, cDNA and genomic library screening, tissue culture, familiarity with DNA databases, and sequence alignment and analysis preferred.

Job Code: 2470

BS/MS Scientist - CNS

In this position, you will carry out experiments and analyze data for CNS/Molecular Biology projects. A degree in Molecular Biology or related field and 5 years' relevant experience required. Background in cell culture methods, *in situ* hybridization, immunohistochemistry or neuroscience is preferred.

Job Code: 2471

BS/MS Scientist-Genomics

Working with Biology teams, you will assist in the identification and characterization of novel target genes for drug discovery research. Degree in Molecular Biology and 3+ years' experience in DNA/RNA isolation, molecular cloning, cDNA and genomic library screening, Southern and Northern hybridizations, recombinant protein expression, PCR amplification and mammalian cell culture required. Bioinformatic and general computer skills preferred.

Job Code: 2472

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JOB CODE: 2476

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Senior Scientist

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When it comes to the search for innovative pharmaceuticals at Eli Lilly and Company, our people work together to produce unprecedented results in our mission to improve health care. We understand the human factor involved with our developments and we pass that ideal on to the women and men that make up our team of scientists. They know that every innovative treatment they create and every cure and method of prevention they discover affects the way people all over the world manage disease and illness. We currently have multiple openings across several different therapeutic areas including Cardiovascular Research, Neuroscience, Endocrine Research, Cancer Research and Infectious Diseases Research, as well as our Research Technologies and Proteins and Bioprocess Development area for Ph.D., BS/MS, and Post Doctoral scientists. If you want to be part of our team working for people, we hope you join us at Lilly today.

Biochemists

Useful experience includes isolation, purification, manipulation and characterization of proteins and developing functional assays for proteins. Familiarity with enzyme kinetics and mechanisms of inhibition of enzymes is desirable. Other positions are available for those with experience in developing high volume screens and development of drug candidates.

Molecular Biologists

Candidates should possess a solid knowledge of current molecular biology and biochemical techniques including PCR, expression cloning, library construction, gene expression, protein expression, anti-sense technology, gene delivery systems, mutant construction and analysis. Working knowledge in bioinformatics is an added asset.

Pharmacologists

These positions require the ability to carry out both in vitro and in vivo assays of drug efficacy. Candidates should have broad experience in various aspects of cell-based assay development and drug development and/or animal-based modeling and drug evaluation.

Cellular Biologists

Successful candidates should possess a thorough knowledge of mammalian cell biology and the use of molecular and cellular biology techniques to explore and evaluate potential drug targets. Experience with techniques including tissue culture, transfection, reporter gene assays is required. Experience with any of the following would be desirable: membrane receptors, signal transduction pathways, regulation of gene expression, or regulation of secreted proteins.



To attract the best and the brightest, we offer competitive salaries and excellent benefits. Qualified candidates are encouraged to apply by sending resumes and cover letters, referencing number ADSCMBI03 to: Eli Lilly and Company, Lilly Corporate Center, US Recruiting and Staffing, Indianapolis, IN 46285. We are an equal opportunity employer dedicated to the strength diversity brings to the workplace.

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KNOWLEDGE IS POWERFUL MEDICINE

ON FINDING A MENTOR: TIPS FROM BAXTER'S SUSAN BERNHART

Everyone agrees. Mentors are critical for a successful science career. But how do you connect with someone willing to spend time listening, critiquing, advising, guiding you through the corporate culture?

Susan Bernhart, manager of the Purification and Assay Development Department at Baxter Healthcare's Hayward, California, facility, mentors women scientists in the San Francisco Bay area. Bernhart has a Ph.D. in biophysical chemistry, 11 years of experience in the biotech industry, and is active in the Palo Alto chapter of the Association for Women in Science (AWIS).



Susan Bernhart

THE BASICS, ACCORDING TO BERNHART: You can initiate formal or informal mentoring relationships. If you choose a senior colleague for a mentor, consider making it formal. Define the information or coaching you need, ask

if they're willing to be your mentor, and set up a regular meeting. Mentoring relationships may be brief, focused on short-term needs, or sustained over many months depending on your goals.

You can create opportunities for informal mentoring with associates. You might ask for

advice on a specific project, sustain the contact by meeting for lunch, in the library, or wherever there's time. Most of my mentoring relationships have been formal. Recently, I've done some e-mail mentoring helping job seekers tap into the biotech community.

There are mentoring programs sponsored by the Association for Women in Science (AWIS) and Women in Life Science (WILS), where volunteer mentors are matched with a graduate student for a year. Formal relationships have advantages for students. The person seeking mentoring feels more entitled, and less reluctant to seek help. The mentor may feel more open to offering advice. Don't hesitate to ask someone to be a mentor. Most senior scientists are interested in sharing their experience.

ASSOCIATION FOR WOMEN IN SCIENCE: GREAT EXPECTATIONS, FEW OPTIONS

Catherine Didion, executive director of the Association for Women in Science (AWIS), is in a unique position to monitor the changing career situation for women in science. She sees more female science majors at the undergraduate and graduate levels. However, there is greater emphasis on recruitment of women scientists and less on retention and promotion of women.

Part of the solution, in Didion's view, should be a "tool kit" to address expectations identified in surveys of the unprecedented numbers of young women now moving through the academic pipeline. Didion describes it:

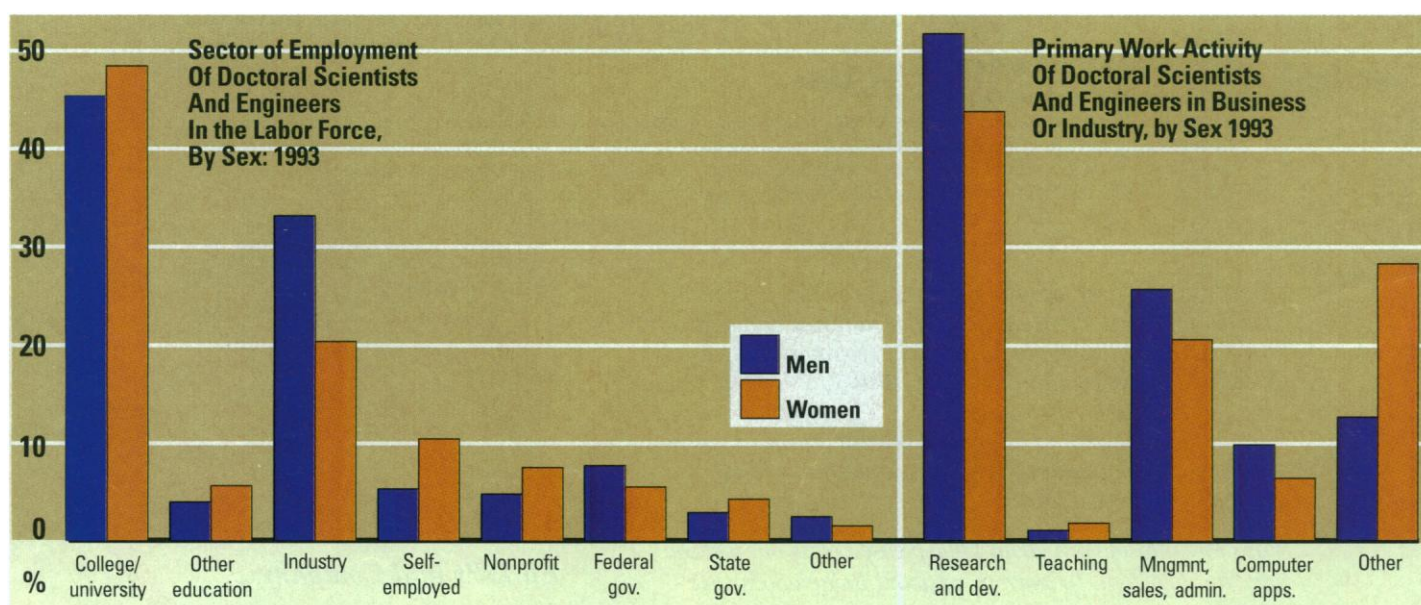
"We asked these young women where they want to be 10 years from now. About 84 percent say they want a full-time rewarding professional career. About 95 percent expect their partner to have a career. Often, that partner will also be a scientist. Over 77 percent said they expect to have children. That's going to be very challenging given the current infrastructure."

She sees signs that industry and academe are beginning to respond to those expectations and develop new programs and approaches for balancing career and family. AWIS is trying to foster some of the needed changes, which seem to be the key to retention and advancement of women in science careers.

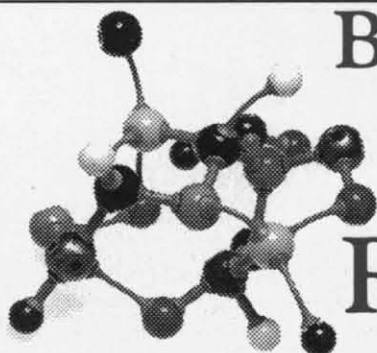
"In many cases men and women don't realize that they already can negotiate flexibility," Didion said. "Scientists often think there is only a one-function pathway: full throttle, all career. We have to encourage alternative pathways."

Didion's view of the industrial science workplace reflects one we often heard: in some respects it has become more female-scientist friendly than academe. Policies on flex time, leave, and other issues usually are clear, written, and don't change with a new department chairman.

Industry, she said, was quick to make the connection between bottom-line productivity and employees who know the institution cares about them.



source: *Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996*; National Science Foundation



Beyond Medicine to Health™

Respiratory Research

The combined strengths of Hoechst Pharmaceuticals, Marion Merrell Dow and Roussel-Uclaf make Hoechst Marion Roussel, a leading global supplier of a wide range of pharmaceuticals that improve the quality human life. We have a history of breakthrough discoveries in medicine, pioneering products for the treatment of many diseases. With the strength of our heritage and a future devoted to making meaningful advances in treating serious diseases, Hoechst Marion Roussel, adds up to an unbeatable combination.

Our Respiratory Disease Group, based in Bridgewater, New Jersey, is focusing its efforts in the area of the pathophysiology, genomics and novel pharmacotherapy of bronchial asthma. We currently have several promising compounds in the preclinical phase of drug development. In order to advance our position in this field and build a staff of highly competent researchers, we currently are seeking talented scientists to support our efforts in drug innovation.

BS/MS Pulmonary Pharmacology Associate

The associate will be responsible for conducting in vitro and in vivo bronchopulmonary pharmacology experiments and assisting in the development of new assays and models useful in the evaluation of test compounds synthesized at HMR with potential to treat asthma. Responsibilities also include interpreting and presenting generated test data and serving as an active participant within the department and in project teams.

Requirements include a BS/MS degree in Pharmacology, Biology, Physiology or related biomedical discipline and a minimum of 2 years experience in an industrial or academic environment preferably in the area of respiratory research. Familiarity with in vivo pulmonary mechanics analysis in rodents or other animals is essential, including animal handling, dosing (i.v., oral, aerosol) and surgery. In addition, the candidate should be familiar with the use of isolated tissues, radioligand binding, and chart recorder operation. The associate should also be able to use computer programs for word processing, spreadsheets and graphics in the design and conduct of research studies and in the interpretation and presentation of test results.

BS/MS Molecular Biology Associate

We are seeking Molecular Biologists to be a part of an interdisciplinary team focusing on identifying novel therapeutic interventions for asthma. The candidate will be responsible for developing molecular biological tools to be used for compound screening and target identification and validation in asthma. Activities will also include generation, characterization and maintenance of cell lines to be used for high throughput screening.

Requirements include a BS/MS in Biology, Biochemistry, Molecular Biology or related discipline with a minimum 2-4 years of experience in molecular biology. Proficiency with the various recombinant DNA techniques such as cloning, screening libraries, DNA & RNA isolation, DNA sequencing, PCR, Northern, Southern & Western blotting, protein expression & purification, and perform ELISA's is desired. In addition, the candidate should be familiar with standard microbiological and cell culture techniques. General computer literacy including the use of DNA analysis software required.

BS/MS Cell Biology Associate

We are seeking BS/MS Cell Biologists who will participate in a team-oriented program directed towards novel therapies for the treatment of asthma. This individual will be responsible for preparing and maintaining cell cultures of primary or immortalized cell lines. Activities also include evaluating the effects of pharmacological agents on these cells utilizing a variety of biochemical and molecular biology techniques to measure cellular responses. Experience in the use of microscopic techniques is also desirable.

Requirements include a BS/MS in Cell Biology, Microbiology or Biochemistry, and a minimum of two years post-graduate experience in an commercial or academic setting. The candidate must have experience in tissue culture techniques for the preparation and maintenance of primary or immortalized cell lines, with particular expertise in the area of epithelial cells and leukocytes. Experience in measuring cellular responses, such as secretion (using RIA, ELISA, etc.), enzymatic activity, oxidative burst, chemotaxis, and intracellular calcium levels is also necessary. The individual should possess familiarity with biochemical techniques, including receptor binding assays. Expertise in isolating tissue samples from small animals is also required, experience in the use of animal models of asthma is desirable. In addition, the candidate should be knowledgeable in the laboratory use of computers for data collection and analysis, especially the use of Excel and data graphing programs.

BS/MS Cellular Immunology Associate

We are seeking BS/MS Cellular Immunologists to participate in the discovery and characterization of novel therapies for asthma. The primary focus of this position is on mechanisms of T-cell activation in allergic disease. The successful candidate will be responsible for the evaluation of compounds in in vitro and in vivo models of asthma. In addition, the individual will perform basic research studies with the goal of defining new targets. Additionally, they will maintain an allergic mouse model and aid in the development of acute/chronic rat and mouse animal models.

Requirements for the position include a BS/MS in immunology with 3-5 years of experience in the pharmaceutical industry, biotechnology industry or academic environment. The candidate should be able to perform in-vitro assays for immune cell activation, cell proliferation assays (both radioactive and non-radioactive), measurements of cytokine production, using ELISA, RIA or bioassay for secreted proteins, and flow cytometry analysis of intracytoplasmic cytokines and cell surface markers. Experience with Western blot analysis is also desirable. Familiarity with the development of antigen-specific T-cell lines and T-cell hybridomas is highly desirable. The individual is expected to have experience in isolation and culture of immune cells from human or rodent tissue samples. In particular, expertise is sought in the use of in vivo assays of immune cell activation, measuring cells and cytokines in bronchial lavage, examining serum IgE levels and ex vivo cell activation, human lymphocyte transfer and activation in SCIDS, and, experience with transgenic mice. In addition, the candidate should be knowledgeable in the use of computers in the laboratory for data collection and analysis, including familiarity with Excel and data graphing software.

Attracting and retaining top talent is a high priority at Hoechst Marion Roussel. That is why we offer one of the most outstanding and comprehensive compensation and benefits packages in the pharmaceutical industry. Our total rewards package includes competitive compensation and bonus programs, flexible medical and dental plans, tuition assistance, income protection plans, and generous retirement plans that have been cited as the best in the industry. For consideration, visit us today, or mail your resume (suitable for scanning) including salary history/requirements, to: **Staffing Manager, D103-H, Ref #1998BW0002, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, New Jersey 08807-0800, U.S.A., or e-mail: jobs@hmri.com**. For additional company information, we invite you to visit our website: www.hmri.com. An affirmative action employer M/F/D/V.

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Hoechst ■

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The Pharmaceutical Company of Hoechst

INDUSTRIAL BIOTECHNOLOGY SERVING THE WORLD

AS A GLOBAL BIOTECHNOLOGY company with revenues of \$275 million, Genencor International develops and markets innovative enzymes and biochemicals that are highly efficient, cost-efficient and environmentally sound. Our investment in the future can be seen in our new R&D facility, which combines basic research, pilot plant development and robotics under one roof and was recently recognized as "Laboratory of the Year" by the publishers of Research & Development magazine. Come join our impressive Palo Alto team environment, located in the beautiful San Francisco Bay Area.

POSTDOCTORAL SCIENTISTS

Microbial Molecular Genetics: You will be involved in the genetic manipulation of bacterial and fungal strains to optimize either secreted protein production or fine chemical production. Along with a PhD in Molecular Genetics, you will need a sound knowledge of the latest microbial molecular genetics techniques, particularly with experience in gene sequence and expression analysis methods at the genomic level in either bacteria, yeast or other fungi. Familiarity with relevant database assembly and handling would be useful. A strong background in Microbiology and/or Biochemistry would also be an advantage. (Job Code: SCI-26-4697)

Bioinformatics: Make a major contribution to our research by carrying out advanced sequence analysis in areas including, but not limited to, gene expression and proteomics. You will be involved in "mining" proprietary and public genome databases and analysis of expression data generated with cutting edge technologies, such as filter-based hybridization or DNA chips. You will have considerable input into the software tools to be used. Ideally, your background will include a PhD in Life Sciences with 0-3 years of postdoctoral experience and significant expertise in computational biology. Knowledge of metabolic pathways is a plus. (Job Code: SCI-26-09)

Structural Bioinformatics: You will work in areas that include the extraction of structural information from sequence data using your expert knowledge of the latest sequence/structure homology databases and tools. This will involve extracting structure/function information from proprietary sequence and structure databases and searching larger databases for related structures. Our ideal candidate will have a PhD in Life Sciences with 0-3 years of postdoctoral experience and significant expertise in computational biology with an emphasis on structural biology. Understanding of metabolism is a plus. (Job Code: SCI-26-10)

SCIENTISTS II

Immunology & Inflammation: Manage tissue culture operations, perform DNA transfections and assist with animal model and gene expression studies. You will need a PhD and 2 years experience or the equivalent in Cellular Biology to provide expertise in developmental biology and embryology functions. Experience in embryonic stem cell culture a plus. (Job Code: SCI-26-02)

Immunology & Inflammation: Responsible for molecular and functional characterization of human genomic clones, as well as *in vitro* and *in vivo* characterization of transgene function. You will also oversee derivation of transgenic mouse strains. Requires a PhD and 1-3 years postdoctoral experience with genomic cloning, characterization of gene structure and function both *in vitro* and *in vivo* and background in molecular immunology. Experience with large DNA cloning important. (Job Code: SCI-26-04)

Microbial Molecular Genetics: Develop and utilize the latest molecular biology techniques for analysis of bacterial or fungal gene expression and protein production. Experience with analysis of expression levels using array-based technologies, or experience with other high-throughput technologies, would be an advantage. Requires a PhD followed by at least 2-3 years of postdoctoral research experience supported by a sound knowledge of Molecular Genetics, Microbiology and/or Biochemistry. Good working knowledge of relevant bioinformatics tools preferred. (Job Code: SCI-26-13)

TEXTILE FORMULATOR

As a member of our textile product development team, you will be responsible for both liquid and solid formulations of enzyme and textile products. This will involve generating product concepts, testing protocols, and running trials at customer sites globally. We require a BS/MS degree with 2-5 years experience in textile chemistry or a related field or a PhD with 0-3 years of industrial experience, ideally as a textile product formulator. Strong analytical background and knowledge of enzymes and cellulose fiber chemistry would be a plus. 25% travel required. (Job Code: SCI-26-2197)

We offer a competitive compensation and benefits package, including relocation assistance, 3 weeks of paid vacation and a generous 401(k) matching plan. **To receive consideration, you must indicate the Job Code corresponding with the position of your interest on your CV/resume.** You may mail to: Genencor International, Inc., 925 Page Mill Road, (Job Code:), Palo Alto, CA 94304-1013, fax (310) 337-3369, or email: genencor@isearch.com. Background checks will be conducted. An equal opportunity employer M/F/D/V.

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Together,
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the face of
world
health.

At SmithKline Beecham, the discovery and development of tomorrow's innovative healthcare solutions takes on a truly global perspective. Here, scientists from all over the world pool their diverse talents, creating a collaborative atmosphere that embraces diversity and encourages breakthrough thinking. Through their united efforts, we are shaping a healthier, more vibrant future for everyone.

With one of the largest R&D budgets in the industry, SmithKline Beecham supports a highly energized environment of innovation and productivity. We offer some of the world's most gifted scientific minds the opportunity to challenge and be challenged. Our scientists' work is radically changing the drug discovery process and reducing development cycle times. Continuing advancements have created opportunities at our suburban Philadelphia locations for scientists in the following disciplines:

- Bioinformatics
- Biopharmaceutical Development
- Biometrics (Statistics and SAS Programming)
- Cheminformatics
- Clinical Research
- Clinical Trials Supply
- Combinatorial Chemistry
- Database Programming/Management
- Drug Delivery
- Drug Metabolism and Pharmacokinetics
- Genomics
- Medicinal Chemistry
- Managed Care Informatics
- Microbiology/Preclinical Development
- Molecular Biology/Virology
- Molecular Microbiology/Pathogenicity
- Pharmaceutical Development
- Pharmaceutical Sales
- Pharmaceutical Technologies
- Pharmacology
- Quality Assurance
- Synthetic/Organic Chemistry
- Toxicology

If you would like to work in an advanced, interdisciplinary environment dedicated to leadership in pharmaceuticals and healthcare, please visit booth #611 at the AAAS Annual Meeting. If you are unable to attend, please send your resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code 98AAAS, P.O. Box 2646, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, visit our Web site at www.sb.com/careers. We are an Equal Opportunity Employer, M/F/D/V.

SmithKline Beecham is proud to be a sponsor of the AAAS Annual Meeting and Science Innovation Exposition and a supporter of the AAAS Student Poster Competition.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

Purdue Pharma L.P., a growing ethical pharmaceutical company, is expanding our R&D capabilities and relocating from Yonkers to Ardsley, New York in the beginning of 1998. This expansion has created the following openings:

Pharmaceutical R&D Opportunities

SECTION LEADER, DRUG METABOLISM

This newly-created position requires a minimum of 5 years pharmaceutical expertise in analyzing drugs primarily by HPLC in biological fluids. Previous supervisory and managerial experience is required together with outstanding written and verbal communication and interpersonal skills. This position will be responsible for a group of 5-7 scientists involved with methods development, method validation and routine bioanalyses in support of both preclinical and clinical studies. Candidates must possess exceptional competency in the application of current regulatory requirements (cGLP, cGMP, cGCP) to the bioanalytical laboratory environment. Creativity and initiative are needed for this key position.

PHARMACEUTICAL ANALYSIS SCIENTISTS

We are looking for highly motivated, creative scientists. Successful applicants will be responsible for assay and trace impurities method development and validation, setting specifications, novel dissolution methodologies and special projects. Industrial pharmaceutical analysis experience in research and development is preferred, as well as experience with HPLC, GC, UV/VIS, DSC, other experimental techniques and wet chemistry. This work is critical to new product development and will comprise the CM&C sections of INDs and NDAs. Knowledge of GMPs and good documentation skills are essential. Requirements include a degree in chemistry. **Position(s) are also available for individuals who have experience in biotechnical products analytical methodology such as ELISA, electrophoresis, and HPLC.**

RESEARCH QUALITY ASSURANCE AUDITORS

Responsibilities include performing internal and external GMP/GLP audits. Participation in process validation and team-driven activities will also be expected. To qualify, you must have a B.S. or M.S. Degree in Science, QC/QA pharmaceutical industry experience and strong oral and written communication skills. Audit expertise in a research environment is a definite plus.

USER SUPPORT MANAGER

We need a bright, energetic individual to develop and manage user support processes. The selected candidate will manage PC distribution of all desktop and laptop systems, at our R & D facility, as well as coordinate help desk staff to provide first and second-level user support for the scientific community. You'll also provide training in desktop tools and integrate R&D user support processes with corporate systems. Requirements include a BS degree in a technical/scientific field with 3-5 years' experience supporting PC applications in an R&D environment. Applicants must be able to demonstrate strong project management skills, knowledge of PC hardware and software, and have experience providing training and/or working in a structured help desk setting.

MANAGER, CLINICAL SUPPLIES LABELING

You'll manage all label production activities for the PRC Clinical Supplies department including the clinical labeling system validation, maintenance and ongoing development. This hands-on position will be responsible for the generation of labeling from clinical protocols, and as part of the Clinical Supplies team, develop systems toward fulfillment of requests and services to the Clinical Supplies department. The ideal candidate will have a BS in Pharmacy or equivalent scientific technical education, and 3 or more years of Clinical Supplies and/or computer management systems experience. Familiarity with cGMP computer systems validation, ClinPro/LBL™ clinical labeling software or equivalent, and development of Standard Operating Procedures essential.

MANAGER, CLINICAL SUPPLIES DOCUMENTATION

You'll handle the management of quality aspects of clinical supplies packaging, labeling, assembly and distribution to investigational sites. The position will be involved in the review, approval and issuance of GMP documentation for use by the Clinical Supplies department; plus the creation of departmental specifications and standard operating procedures. As a member of the Clinical Supplies team, you'll participate in on-site auditing of contract packaging and will represent the department at interdisciplinary meetings. The ideal candidate will have a BS in Pharmacy or equivalent technical education, and 3 or more years of Clinical Supplies and/or Quality Assurance experience. Familiarity with cGMP's as they relate toward clinical supplies and proficiency in personal computing skills are also required.

Purdue Pharma L.P. offers competitive salaries, an extensive benefits package and excellent opportunities for personal advancement and professional growth. Company standards require drug testing. Please mail or fax resumes, indicating position of interest, to: **Purdue Pharma L.P., Dept-SR/SM, 99-101 Sawmill River Road, Yonkers, New York 10701; FAX: (914) 968-4130.**
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Purdue Pharma L.P.
Science into Practice

The Essence Of
Our Science Is

The **Intellect** Behind It.



▶ **Dr. Marilyn R. Kebry** received her Ph.D. in Biochemistry at the California Institute of Technology and is currently a Distinguished Scientist in the Department of Immunological Diseases at Boehringer Ingelheim Pharmaceuticals, Inc. As manager of a drug discovery program targeting several autoimmune diseases, Dr. Kebry's research is focused on the study of lymphocyte activation and signaling.



▶ **Dr. Li** received her Ph.D. in Analytical Chemistry from The University of Illinois at Urbana-Champaign with postdoctoral research in C₆₀ chemistry at The University of California at Santa Barbara. Currently, Dr. Li heads an analytical development lab at Boehringer Ingelheim Pharmaceuticals, Inc., responsible for developing and validating analytical methods to support new drug development in all phases.

▶ **Dr. Leah Lipsich** received her Ph.D. at SUNY at Stony Brook in cellular and developmental biology. Training in retrovirology and cancer oncogenes, and success in the development of anti-cancer antibodies for human therapy, led to management of Biotechnology Development and associated programs at Boehringer Ingelheim Pharmaceuticals, Inc. Dr. Lipsich is currently Director of the Pharmaceuticals Department.

At Boehringer Ingelheim Pharmaceuticals, Inc., the discovery and development of innovative therapies is a product both of creativity and the capacity to pursue it. It is a collaborative process that draws on the expertise of professionals from around the globe, working together to deliver the products that improve human health. In the U.S. and Canada, in Germany and Japan, Austria and Argentina, our state-of-the-art facilities provide the resources that inspire intellectual and scientific achievement — where knowledge, insight and ideas are shared across the broad spectrum of disciplines. As the world's largest privately-held pharmaceutical company, diversity of thought is the essence of Boehringer Ingelheim, and the fundamental element behind our global success.

Due to expansions at our R&D location in Ridgefield, CT, we have openings in the following areas:

- Drug Metabolism and Pharmacokinetics (Dept. #DM98WIS)
- Analytical Sciences (Dept. #AS98WIS)
- Pharmaceuticals (Dept. #PH98WIS)
- Medicinal Chemistry/Chemical Development (Dept. #MC98WIS)
- Quality Assurance (Dept. #QA98WIS)

For a rewarding career within any of these areas, please send your C.V. and cover letter, indicating the specific department, to: Human Resources, R&D, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Rd., P.O. Box 368, Ridgefield, CT 06877; E-mail: rd.resume@bi-pharm.com. We are an equal opportunity employer promoting a culture that embraces all others M/F/D/V. As a progressive healthcare company, we have a smoke-free environment.



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INNOVATION AND DISCOVERY... MULTIPLIED BY THE POWER OF TWO

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ARE IMMEDIATELY AVAILABLE

Become part of a unique, newly-formed alliance for discovery and success.

Cereon Genomics, LLC, is an alliance between Monsanto Company and Millennium Pharmaceuticals, Inc., created to apply genomics technologies to the discovery and development of plants and agriculture products. This organization, which is a wholly-owned subsidiary of Monsanto Company, has been formed to capitalize on the proven strengths of two companies committed to innovation and excellence. By combining Monsanto's extensive research base and resources in agriculture, food and pharmaceuticals with Millennium Pharmaceuticals' know-how, tools and processes for genomics research, this venture will be able to analyze new product leads with greater speed and precision, allowing faster time-to-market for future Monsanto life sciences products.

Cambridge-based Cereon offers technical professionals and scientists the best of two worlds. It provides the advantages of an exciting start-up organization, including the unequalled opportunity to impact the future of genomics technology, product development, and the organization itself. At the same time, Cereon is backed by the resources and commitment of two strong and respected industry leaders, ensuring a stable, secure environment for building a great future.

HIGH THROUGHPUT SCREENING SCIENTISTS

Several openings are available for BS/MS or Ph.D. level scientists with experience developing and running cell-based or biochemical high throughput assays. Prior experience with photometric, fluorometric, and radiometric detection systems and experience with laboratory automation equipment is important. You must have a BS, MS, or Ph.D. in a Life Science, Chemistry or Engineering.

DISCOVERY SCIENTISTS

You will build Cereon's gene function discovery efforts for agriculturally relevant microorganisms and plants. These positions require extensive experience in molecular genetic studies aimed at understanding gene function. A Ph.D. or equivalent experience in Genetics, Microbiology, Biochemistry, Plant Biology or a related field and at least 2-3 years' successful postdoctoral training are required.

DISCOVERY DIRECTORS

Key leadership positions are available for scientists qualified to guide the development and implementation of Cereon's scientific research program. Coordinate and plan the initial staffing and start-up operations for Cereon as well as determine and direct the long-term research plan. This requires close interaction with the scientific leadership of both Millennium and Monsanto to insure Cereon's ability to achieve aggressive scientific and technological goals in the general areas of Crop Protection and Improvement. Positions require: outstanding communication, interpersonal skills and proven leadership abilities in plant or microbial genomic research, Ph.D. or equivalent experience, and a strong background in Genetics and Molecular Biology. Prior experience in building and managing teams for large research projects is essential.

BIOINFORMATICS DIRECTOR

Lead the Informatics effort for Cereon, and manage a team of computational biologists and SW engineers. Ensure that the enormous amounts of data generated by the sequencing and transcriptional profiling efforts are effectively utilized. Responsibilities include budgeting and resource management, setting the direction of the organization and interfacing with business partners. Background should include very large RDB, OO systems development, technical management experience. Ph.D. or equivalent experience in Molecular Biology or CS with 8-10 years' relevant development experience required. Management and Informatics experience desired.

TRANSCRIPTIONAL PROFILING SCIENTISTS

You will join a team of scientists in developing transcriptional profiling capability for agricultural applications. A Ph.D. or equivalent experience in Agricultural Biology or Molecular Biology and approximately 3-5 years' postdoctoral experience is required. Ideal candidates will have some experience with transcriptional profiling or other high throughput processes.

SCIENTIFIC LEADER - TRANSCRIPTIONAL PROFILING

You will be responsible for a group of researchers who will establish transcriptional profiling (arraying, hybridization, detection, analysis tools) capability for agricultural applications. A Ph.D. or equivalent experience in Agricultural Biology or Molecular Biology with strong technology background and 5-10 years' experience is required. Experience with transcriptional profiling or other high throughput operations such as sequencing is a definite plus.

SCIENTIFIC LEADER - HIGH THROUGHPUT SCREENING

Your responsibilities will encompass managing a team of associates who will develop and conduct both cell-based and biochemical high throughput assays. Your background should include experience with photometric, fluorometric, and radiometric detection systems, integrated robotic systems (e.g. Zymark, Saigen, Tecan), as well as workstation-based approaches (Tomtec, Matrix Platemate, Multidrop). Additional requirements include: experience working with target biologists and medicinal chemists, preferably in the fungal biology area, Ph.D. or equivalent experience, and industry experience using high throughput technologies.

BIOINFORMATICS SCIENTISTS

You will use industry standard and proprietary software tools to analyze DNA sequence and gene expression data for genomics research exploring agricultural or biological product development. These positions require familiarity with use of industry-standard sequence analysis software (GCG, Grail, Hidden Markov Models) and an MS/Ph.D. or equivalent experience in Plant Molecular Biology, Computational Biology, or related field. Knowledge of Perl, HTML, UNIX and SQL is required.

PHYSICAL MAPPING SCIENTISTS

Several openings are available for scientists at all levels with interests in developing high resolution genetic and physical map for agricultural crop species with a long term view to applying these tools toward crop improvement. A strong background in Genetics, Genetic and Physical Maps and Molecular Biology is required.

SCIENTIFIC LEADER - GENETICS

We are seeking a leader with genuine interests in developing high resolution genetic and physical maps of agricultural crop species with long term views towards using these tools for crop improvement. This position offers a great opportunity to participate in a large, multi-faceted genomics project that will result in advances in agricultural crop production and improvement. A strong background in Genetics and Molecular Biology is required and significant experience in building and managing a team for a large project is a strong advantage. A Ph.D. or equivalent experience is necessary.

SOFTWARE ENGINEERS

Tactical programmers are required for application and development of sequence, mapping, and expression informatics tools. You will work closely with other developers and biologists in providing a comprehensive platform for bioinformatics. Requirements include 2+ years' experience with one or more of Perl, C/C++, Java, Smalltalk, database development and 3+ years with UNIX. Experience in object-oriented design methodologies will be a strong plus. A BS or MS in Computer Science with some coursework or interest in Biology, or a BS/MS in Biology with extensive programming experience using Perl are also required.

DNA SEQUENCING SCIENTISTS

We are forming a large group for production sequencing and are hiring at all levels. Key positions include Sequencing Manager and Finishing/Production Coordinators. The sequencing leader (Ph.D. or equivalent) will have significant experience in a genome center or other high throughput molecular biology laboratory. Strong organizational, communication, and management skills are required. Finishers should have extensive experience in DNA sequencing, editing, and assembly. Production coordinators will have a strong knowledge of DNA sequencing with good communication and leadership skills.

Listed positions are for our Cambridge, MA site. Please send your resume by mail to our Resume Processing Center:

Millennium Pharmaceuticals, Inc.
Source Code: SC298, PO Box 798
Burlington, MA 01803

Email: Millennium@webhire.com (paste/type in resume first with cover letter at the end. No file attachments).

On-line form: <http://restrac1.webhire.com/Millennium>.

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Leading the Way in Women's Health Care Research



*A*s we move into the twenty-first century, Wyeth-Ayerst is positioned to explore new technologies, innovative molecular approaches and evolving formulations that will give women and mankind a wide range of state-of-the-art pharmaceuticals and products to maximize efficacy, minimize side effect profiles and enhance ease of use.

At Wyeth-Ayerst Research, our global research efforts are focused in the following therapeutic areas:

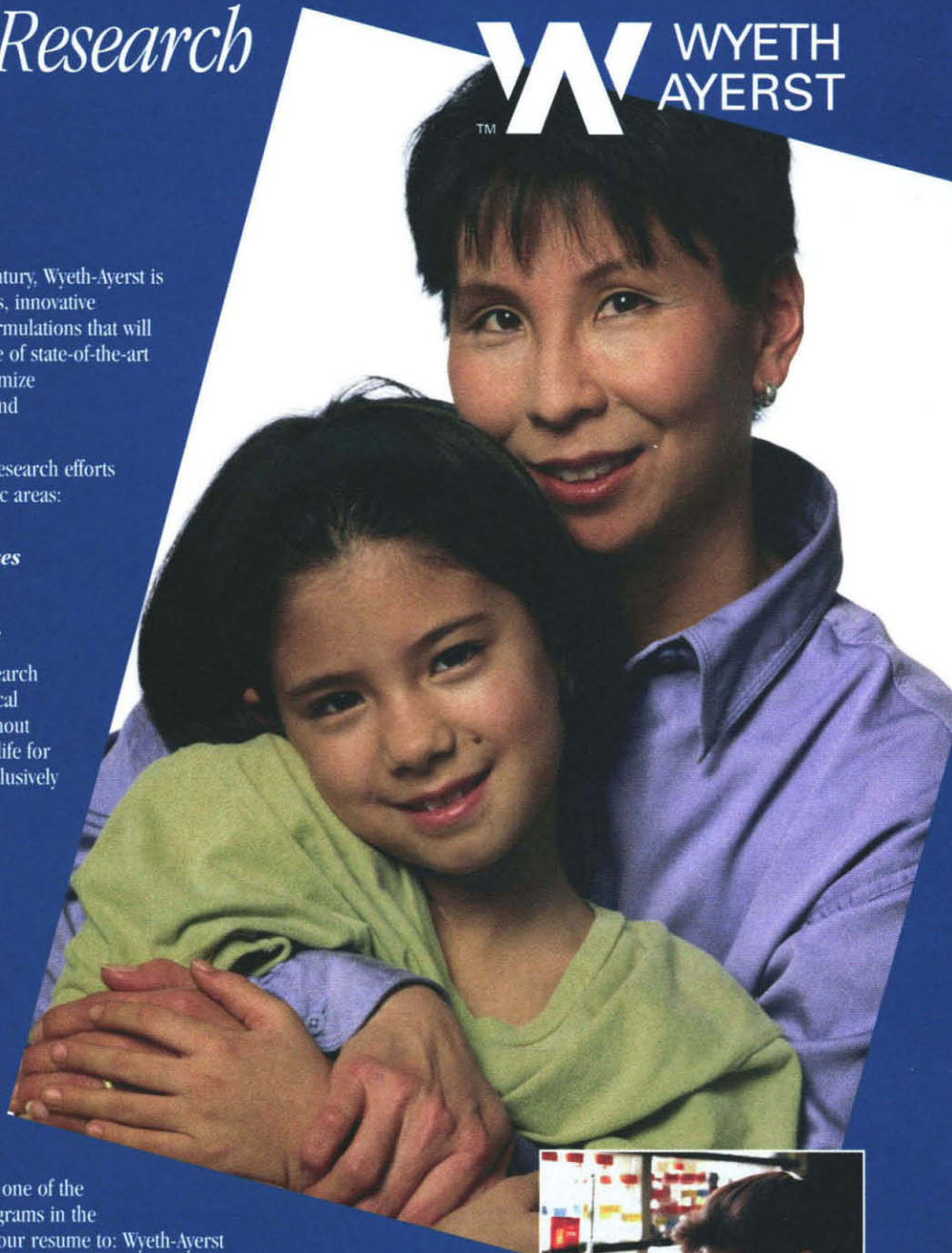
Women's Health
Cardiovascular/Metabolic Diseases
CNS Disorders
Infectious Diseases
Immunoinflammatory Disorders

The Wyeth-Ayerst Women's Health Research Institute, in particular, serves as the focal point for the continuing efforts throughout Wyeth-Ayerst to improve the quality of life for women around the world. Devoted exclusively to basic and clinical research for the development of women's health care products, the Institute reaffirms our commitment to provide innovative products for the unique health care needs of women.

We encourage inquiries from Scientists interested in opportunities in any of our therapeutic areas, at our four Research Centers of excellence in Radnor, Pennsylvania, Princeton, New Jersey, Chazy, New York or Pearl River, New York.

Wyeth-Ayerst offers a competitive salary and benefits package along with one of the best employee stock option award programs in the pharmaceutical industry. Please send your resume to: Wyeth-Ayerst Research, Human Resources Dept., Position #OPSCI-0298, P.O. Box 7886, Philadelphia, PA 19101-7886, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.

Please visit our Web site at: www.ahp.com



Radnor, Pennsylvania ■ Princeton, New Jersey ■ Chazy, New York ■ Pearl River, New York

CH2M HILL's JILL SHAPIRO: "WATCH FOR OPPORTUNITIES, LEARN TO SAY 'NO'"

In recent years, Jill Shapiro has not only encountered more female scientists using science and engineering degrees in innovative ways, ways that don't directly involve bench-top research, she has herself taken alternative paths, in which a science/engineering degree is the springboard for a career in consulting, writing, and other fields.

"I definitely see more women going the same way," said Shapiro, a vice president of CH2M HILL. "They're using a scientific background in many productive new ways."

Shapiro got a Ph.D. in physical and inorganic chemistry from Bryn Mawr University, and did postdocs in high-energy physics,



Jill Shapiro

molecular biology, and molecular structure. In the 1970s the first environmental laws went into effect. Shapiro saw an opportunity to apply her science credentials in the emerging new field of environmental consulting.

She established two environmental consulting firms before moving to CH2M HILL, the consulting and engineering firm. With over 7,000 employees on six continents, it offered Shapiro wider opportunities.

"A scientific education can be a general preparation for success in a lot of other fields," Shapiro said. "Scientists learn to evaluate and solve problems. Many can write and communicate coherently. We've worked on teams and know how to get along with other people. You can bring that background to bear in many ways other than bench-top research."

Whether the choice is bench-top research or another area, female scientists often must develop skill in balancing work with home and family responsibilities. Shapiro cites an effective but often overlooked approach.

"Learn to manage your time and say 'no' when necessary. You have to make a commitment to your job and a commitment to your home and family. Both sides of your life should understand the commitment you have to the other. Set priorities, and then manage time so you can meet them."

Sometimes that may mean saying "no" to additional tasks. "Saying 'yes' to everyone only results in disappointment on all sides," Shapiro noted.

"A WONDERFUL TIME TO BE IN SCIENCE": NORTHWESTERN UNIVERSITY'S VILLA-KOMAROFF

Get a mentor. Network to find out how other female scientists handle family balance and work-related issues. Work hard—maybe harder than male counterparts.

"None are the real key to a productive career in academic science," says Lydia Villa-Komaroff. "If you really want to be successful, you have to take advantage of them all. One alone won't do it."

Villa-Komaroff credits the use-them-all approach with helping to establish and advance her own career. She has a Ph.D. in cell biology from the Massachusetts Institute of Technology, and spent nine years at Har-

vard Medical School before moving to Northwestern, where she is vice president for research and graduate studies.

Since graduate school in the 1970s, Villa-Komaroff has seen increased numbers of women in academic science. "Women do reasonably well at the assistant professor level. However, as you go up the ladder there are fewer and fewer women represented. Women in administrative jobs tend to be clustered at the smaller schools, rather than the large, research-intensive universities."

Some who opt out of academia opt into industry. Villa-Komaroff said the industrial workplace may be more female-scientist friendly, in some respects, than academe. "You can choose more readily to have a very rewarding profession in industry because there's no 'up-or-out' necessity."

Unlike a standard tenure-track academic position, a scientist in industry can choose not to advance. The decision may cap their career, but they can remain in their jobs. In academia, stopping the tenure clock for child bearing remains largely a concept. "In industry, it is a real career choice to remain at a certain level," Villa-Komaroff



Lydia Villa-Komaroff

said. In academia, it is more difficult to remain a postdoc or a research associate.

"Science is a great career choice," Villa-Komaroff added. "It's an exciting time to be in science, and some incredible things are happening in research. I'm optimistic about the future of women in this wonderful pursuit." ■

AWIS's GOAL: TO BECOME OBSOLETE

Established in 1971, the Association for Women in Science (AWIS) is a nonprofit organization based in Washington, D.C. committed to achieving equity and full participation of women in science and technology. In 1997, in recognition of its efforts, AWIS won the Presidential Mentoring Award.

More than half of its 6,000 members in 76 local chapters have doctorates. They work in industry, academe, and government. AWIS chapters encourage female students to pursue science careers and sponsor programs to facilitate mentoring and networking. Nationally, AWIS provides congressional testimony, organizes national conferences, publishes reports and the quarterly "AWIS Magazine," and has a highly regarded World Wide Web site (www.awis.org).

"Our goal as an organization is to become obsolete," said AWIS executive director Catherine Didion. "We want to reach a point where it almost becomes nonsensical to have an organization devoted to achieving equity for women in science, because they will have it."

Participate in Career Workshops:

Join us for an online discussion group on careers in genetics at the Science Professional Network Web page (www.sciencemag.org). Click on Science Professional Network, and then click on Career Workshops. An expert in the field of genetics will be available to answer your questions for the month from 6 March through 2 April.

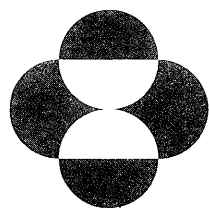
SENIOR BIOLOGISTS

Merck Research Laboratories in Rahway, New Jersey, a world leader in Biological and Pharmaceutical Research, is recruiting a limited number of excellent scientists with significant leadership potential.

The successful candidates must have a minimum of two years of post-doctoral experience, a solid record of achievement demonstrated by a strong publication record, and excellent communication skills. Openings exist in Pharmacology, Immunology, Biochemistry, Endocrinology, and Natural Products Research to work in a wide range of therapeutic areas. These include obesity, diabetes, atherosclerosis, arthritis, asthma, allograft rejection, and neurodegenerative disorders, among many others. Drug discovery programs at Merck employ the full spectrum of techniques used in the biomolecular sciences, including molecular genetics, cell biology and biochemistry, electrophysiology, natural products, and animal pharmacology.

In addition, research at the interface between synthetic organic chemistry and molecular biology reaches its apotheosis at Merck, which boasts one of the world's strongest medicinal chemistry research laboratories. Successful applicants may be drawn from any discipline, but must have a superlative record of accomplishment in research, and should have developed a commitment to drug discovery. We are especially interested in applicants from traditionally under-represented minority groups.

Merck Research Laboratories are located approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. Applicants should send their CV (including names and addresses for three potential references) and a Statement of Research to **Merck & Co., Inc., P.O. Box 2000, AD #62, Rahway, New Jersey 07065, RY80-3**, or by e-mail to mary_ann_ohalloran@merck.com. Merck Research Laboratories is an equal opportunity employer.



MERCK

Research Laboratories



**Dean, College of Pharmacy
University of Iowa**

The University of Iowa seeks candidates for the position of Dean of the College of Pharmacy. The College of Pharmacy is a research-intensive unit committed to excellence in professional and graduate education. The College offers programs leading to the Pharm.D. degree in the professional curriculum, the M.S. degree in clinical/hospital pharmacy, and the Ph.D. degree in medicinal and natural products chemistry, pharmaceuticals, and pharmaceutical socioeconomics. The College of Pharmacy is part of the University's highly regarded Academic Health Sciences Center along with the Colleges of Dentistry, Medicine and Nursing; the VA Medical Center; and the University of Iowa Hospitals and Clinics, one of the nation's largest university-owned teaching hospitals. The College of Pharmacy operates a unique FDA-registered GMP manufacturing facility and is also home to the Iowa Drug Information Service, and the Center for Advanced Drug Development.

The Dean is the Chief Executive Officer of the College and reports directly to the Provost. The Dean is the spokesperson for the faculty of the College, and represents the College in interactions with alumni and other university, state and national constituencies. The Dean is responsible for providing academic, administrative, and fiscal leadership for the College.

Candidates should possess a doctorate in a discipline related to the overall mission of the College, and a distinguished scholarly record in research and education appropriate for a tenured appointment in the University at the rank of Professor. The successful candidate must have: an ability to articulate a vision for the future of the College of Pharmacy and the profession; a record of success in administrative and fiscal management; an ability to communicate and consult effectively; a record of success in working with external constituencies and eliciting their support; and a dedication to increasing diversity among faculty, students and staff. A degree in Pharmacy is desirable.

The Search Committee will begin reviewing candidates March 16, 1997. Nominations and applications will be accepted until the position is filled. The Committee is interested in identifying minority and women candidates. Applications should include a curriculum vitae and the names, addresses and telephone numbers of three references. Please send nominations or applications to:

**Lawrence Fleckenstein, Pharm.D.
Professor and Chair, College of Pharmacy Dean's Search Committee
College of Pharmacy
University of Iowa
Iowa City, IA 52242
Telephone: 319-335-8804**

See <http://www.uiowa.edu/~pharmacy/> for more information on the College of Pharmacy
The University of Iowa is an equal opportunity and affirmative action employer

NPS PHARMACEUTICALS, INC.



NPS Pharmaceuticals, Inc. is pleased to announce job opportunities in the areas listed below. NPS is a public pharmaceutical company focusing on the development of novel therapeutics for the treatment of hyperparathyroidism, osteoporosis, stroke, pain and other debilitating diseases. NPS was the recipient of the Arthur Anderson 1997 Utah Best Business Practices Award for Motivating and Retaining Employees. Benefits offered include stock option grants, participation in employee stock purchase plan, full medical and dental benefits beginning on the first day of employment, subsidized child care, as well as a 401(k) and flexible benefits plan.

RESEARCH SCIENTIST

Job Reference # 500-BVW-12/97-0002

PRIMARY RESPONSIBILITIES

The selected individual is required to have 2 to 10 years of experience in the pharmaceutical industry and to utilize their understanding of a multi-disciplinary approach to the drug discovery and design process to prepare novel therapeutic agents using combinatorial techniques. This individual is expected to use their written and verbal communication skills to communicate with research staff and management, as well as to make contributions to patents, scientific literature, and conferences.

SPECIFIC RESPONSIBILITIES

The selected individual will be required to design and synthesize compounds active at a number of therapeutic targets using combinatorial techniques. This individual will work within a team environment composed of chemists, pharmacologists, and molecular biologists and will be expected to interact effectively with supervisors and direct reports.

JOB QUALIFICATIONS

- Ph.D. in Chemistry with 2 to 10 years experience in the pharmaceutical industry required
- Minimum of 3 years of combinatorial chemistry experience is required
- Experience with the synthesis of complex heterocycles highly preferred
- Demonstrated success working within team environments across disciplines and developing team members and subordinates required
- Excellent verbal and written communication skills as evidenced by contributions to patents, scientific literature, and conferences

GROUP LEADER-HIGH THROUGHPUT SCREENING

Job Reference #500-DH-12/97-0002

PRIMARY RESPONSIBILITIES

The selected individual will be required to implement high throughput screening for the discovery of compounds active at novel targets, which will entail an understanding of a multidisciplinary approach to the drug discovery process. The individual will be expected to use written and verbal communication skills in interactions with research staff and management, as well as in contributions to patents, scientific literature, and conferences.

SPECIFIC RESPONSIBILITIES

The selected individual will be required to initiate, design, and implement novel high throughput screens and coordinate the operations of the high throughput screening facility in order to meet the needs of discovery project teams. This individual will also be required to ensure that the technology base of the high throughput screening group is maintained and expanded. Teamwork is required in an environment composed of chemists, pharmacologists, and molecular biologists. It is expected that the selected individual will interact effectively with management, project and team leaders, and direct reports.

JOB QUALIFICATIONS

- Ph.D. with 5-10 years experience in the pharmaceutical industry
- One to 2 years experience in design, implementation and management of high throughput screens
- Demonstrated success in applying multidisciplinary approaches and novel technologies to high throughput screening development
- Demonstrated success working within team environments across disciplines and in career development of team members and subordinates are required
- Excellent verbal and written communication skills as evidenced by contributions to patents, scientific literature, and conferences



NPS PHARMACEUTICALS

Please send resume and job reference number to:
Human Resources Department
420 Chipeta Way
Salt Lake City, UT 84108
e-mail: jobs@npsp.com

Visit our web site: www.npsp.com

NPS Pharmaceuticals is an equal opportunity employer



TEXAS SOUTHERN UNIVERSITY

Director of the Center of Cardiovascular Diseases

Texas Southern University invites applications for the position of Director of the Center of Cardiovascular Diseases at Texas Southern University with opportunities to engage in collaborative research ventures with research partners in the Texas Medical Center, including the Baylor College of Medicine, The University of Texas at Houston School of Public Health, The University of Texas Houston Health Science Center, and The University of Houston. The Center of Cardiovascular Diseases at Texas Southern University is an initiative of Texas Southern University and the National Heart, Lung, and Blood Institute and is designed to expand and strengthen the University's biomedical research capabilities so that Texas Southern University can make significant contributions to the improvement of the cardiovascular health status of all Americans, especially African Americans.

Established in 1947, Texas Southern University is a free-standing public institution. Texas Southern University officially became "A Special Purpose Institution of Higher Education for Urban Programming" in June, 1973. Providing "higher education for urban programming" requires that the University addresses itself to the needs of all segments of the urban population, particularly disadvantaged minorities who comprise a major portion of the population of most cities. The mission of Texas Southern University is to academically prepare and develop diverse, predominantly African American students to discover solutions to health and other problems disproportionately affecting urban minorities through scholarship, research, and outreach programs to the community.

The Director of the Center of Cardiovascular Diseases will assemble, organize, implement, and manage a basic biomedical research program that is consistent with the University's unique mission. The Director will expand and enhance the University's research projects in cardiovascular diseases and create a Center that will provide intensive laboratory training experiences for graduate and undergraduate students. The Direc-

tor will initiate and foster collaborative research and educational arrangements within the University and within the academic community in Houston; create a nationally recognized research program; provide opportunities for structured and supportive faculty development; and enhance the University's research infrastructure. The Director will also seek additional funds to strengthen the research enterprise; work with existing faculty and research associates; and recruit new faculty and research associates. Resources available to a Director include core molecular biology and tissue culture laboratories, state-of-the-art research instrumentation, and opportunities to collaborate with investigators in several University research centers.

The candidate must be an established scientist with major research interests in cardiovascular diseases and disorders that principally and disproportionately affect African Americans. Candidates for the position must have proven scientific leadership capabilities and a track record of successful grantsmanship and teaching experience. The candidate must have a doctoral degree (Ph.D., M.D./Ph.D.) and meet the University's requirements for a tenure-track faculty appointment at a rank of Associate Professor or Professor.

Texas Southern University is located in Houston, Texas, only minutes away from the largest medical center in the world, the Texas Medical Center.

Applications from women and minorities are strongly encouraged.

Letters of interest and a curriculum vitae must be received by April 30, 1998 and addressed to:

**The Recruitment Committee
c/o Dr. Barbara E. Hayes
College of Pharmacy and Health Sciences
Texas Southern University
3100 Cleburne Avenue
Houston, TX 77004**

PREDOCTORAL FELLOWSHIP PROGRAM IN MOLECULAR THERAPEUTICS



This is a unique program between Novartis, the largest Life Science company in the world and the University of Medicine and Dentistry of New Jersey (UMDNJ) Graduate School of Biomedical Sciences at Robert Wood Johnson Medical School, one of New Jersey's premier academic institutions. The program will provide predoctoral students an integrated research training experience at UMDNJ and at the Novartis Research Institute for Biomedical Research.

The program will encompass cutting edge research e.g. cell cycle regulation, transcriptional control, signal transduction, cell-cell interactions and structural biology in the context of the Novartis therapeutic areas of transplantation, oncology, cardiovascular disease, diabetes, arthritis, lipid metabolism and gene and stem cell therapy.

We are looking for highly motivated, innovative students who have an interest in working in an interdisciplinary industry/university environment, and who ultimately desire a career in academia or industry.

A bachelor's degree, with a strong academic record, is required for admission.

Please send inquiries to Dr. Sidney Pestka, Novartis/UMDNJ Fellowship Program, 675 Hoes Lane, Piscataway, NJ 08854-5635. Final applications are due by March 15, 1998.

Application can be found at: www2.umdj.edu/gsbpsweb



We're about



finding a job
that works for you

Making people's lives more fulfilling, healthy, productive and rewarding is what Merck is all about. Our focus is on people - our customers and our employees. We are a company that appreciates the role employees play in our success. As an employer, we are deeply committed to you and your career - and offer many challenging, purposeful and rewarding opportunities to achieve your best and make an impact.

With sales approaching \$20 billion and a presence in virtually every corner of the planet, Merck - one of the world's largest pharmaceutical companies and a global leader - is clearly in a position to take your career in some very exciting directions. We are dedicated to providing superior products that preserve and enhance the quality of life for everyone, everywhere.

Opportunities exist in all areas of our company, including: **Research & Development, Sales & Marketing, Accounting/Finance, Manufacturing, MIS, Engineering, Administration and Human Resources.** So, wherever your interests lie, we have the know-how and resources to put your career on the right path. Our workforce is diverse with talented and dedicated professionals possessing a variety of backgrounds, experiences and interests. We also have a supportive and flexible corporate environment that's conducive to growth, personal empowerment and creativity.

Put the power of Merck behind your career and join a company where you can achieve your personal and professional goals. Get in touch by sending your resume to: **Merck & Co., Inc., P.O. Box 100, WS1F-55, EZZASM462, One Merck Drive, Whitehouse Station, NJ 08889.** We are an Equal Opportunity Employer, M/F/D/V.



www.merck.com

DEKALB Genetics Corporation is the fastest growing agricultural seed company in the U.S. We seek bright, creative, and ambitious people to join our expanding biotechnology research team focused on the genetic improvement of crop plants.



PROJECT LEADERS

Yield Improvement

The successful candidate will help to initiate, direct and implement research objectives directed toward increasing yield through the introduction and manipulation of transgenes. Candidates should have a Ph.D. in plant biochemistry, plant cell biology or plant physiology, with a strong background in plant molecular biology, experience with transgenic plants and good communication skills. Expertise in the manipulation of biosynthetic pathways and several years experience in the supervision of scientific staff is preferred.

Enhanced Quality Traits

The successful candidate will participate in the development of novel transgenic plant products by characterizing transformation events at the molecular level, coordinating assays for trait expression, and working with plant breeding personnel to evaluate trait efficiency. This position requires a Ph.D. in an area of the life sciences, strong molecular biology expertise, and excellent communication and organizational skills. Experience in seed biology and a background in plant genetics is desirable.

PROJECT/ASSOCIATE SCIENTIST

Corn Transformation Technology Development

The successful candidate would help develop novel technologies required for the efficient transformation of corn. Candidates should have a Ph.D. or M.S. degree with experience in monocot transformation and molecular biology.

RESEARCH ASSOCIATES

Functional Genomics

The successful candidates will develop methods to efficiently produce and identify insertional mutations in maize. DNA manipulation, gene isolation, vector construction, and genetic manipulation of maize will be performed. Candidates should have a M.S. degree or equivalent in a biological science, preferably in genetics or molecular biology.

DNA Marker Lab Manager

The successful candidate will be responsible for the daily operations and scheduling of a high volume DNA Marker lab. Candidates should have at least a M.S. degree or equivalent in a biological science. Supervisory experience and significant technical expertise in DNA analysis, including Southern and PCR analysis with computer skills, are required.

RESEARCH ASSOCIATES OR RESEARCH ASSISTANTS

Transgene Development

Successful candidates will perform DNA cloning, gene isolation and vector construction as well as protein isolation, characterization and assays. Candidates should have a B.S./B.A. or M.S. degree in biochemistry, biology, genetics or a related field, with at least two years of lab experience, preferably with plant biology.

Positions are located at DEKALB's biotechnology research facility in Mystic, CT, a scenic shoreline community located on Long Island Sound, halfway between New York and Boston. DEKALB offers a competitive compensation, an attractive benefits package, and an outstanding working environment. For more information on DEKALB, visit our web site at <http://www.dekalb.com>.

Send cover letter, resume, and the names, addresses and phone numbers of three professional references to:

Human Resources
DEKALB Genetics Corporation
 62 Maritime Drive
 Mystic, CT 06355-1958
 Fax: (860) 572-5240

EOE

Cadus Pharmaceutical Corporation, a leader in functional genomics, is creating an integrated program of drug discovery. Focusing primarily on G protein-coupled receptors and their related cell signaling pathways, Cadus exploits the similarities between the yeast and human genomes to create proprietary yeast and mammalian cell-based tools of drug discovery.

Cadus has openings for motivated individuals in the following areas:

CANCER BIOLOGY

Code: S-CB Ph.D. scientist with a minimum of 2 years post doctoral training with a strong background in oncology research and BS/MS scientists with a minimum of 1 year experience and a strong background in mammalian cell culture or oncology research to participate in a program which uses a novel approach to cancer chemotherapy in the development of new drugs for small cell lung carcinoma. Experience with apoptosis assays and signal transduction research preferred. Qualified individuals will work with a team of people to elucidate signal transduction mechanisms and to design, develop and implement secondary assays for the analysis of potential therapeutics.

NEW LEADS DISCOVERY: HIGH-THROUGHPUT SCREENING

Code: S-NL BS/MS scientists with a minimum of 1 year experience in assay development or screening. Experience with yeast and/or mammalian cell culture techniques, cell-based screening assays and/or HTS robotics/automation is desirable. Responsibilities include development, pilot and implementation of novel cell-based screens for G-coupled protein receptor targets, performing selectivity assays and identifying lead compounds in support of internal Drug Discovery efforts.

MOLECULAR/YEAST BIOLOGY

Code: S-MYB BS/MS scientists with a minimum of 2 years experience or Ph.D. scientists with a minimum of 3 years postdoctoral research experience in molecular biology for a project expressing mammalian signal transduction proteins in yeast. Background in cellular and molecular biology or biochemistry is required. Experience with yeast and protein analysis preferred.

COMPUTER PROGRAMMER/ANALYST

Code: S-CP Bachelor's Degree in programming needed along with strong programming skills in the following: Java, Perl, HTML, C/C++, and Visual Basic. Familiarity with UNIX and NT environments required. Must have experience with databases — Oracle preferred. Knowledge of molecular biology a plus.

MAMMALIAN CELL BIOLOGY

Code: S-M BS/MS scientists with minimum of 2 years experience in mammalian cell biology and gene expression to join our assay development group. Expertise with mammalian cell culture, signal transduction analysis and strong molecular biology skills are essential. These individuals will be working with projects involving novel whole cell assay systems for G protein-coupled receptor signaling.

DRUG DISCOVERY/CELL BIOLOGY

Code: S-DD BS/MS scientists with a minimum of 2 years laboratory experience with strong background in molecular biology, mammalian cell culture, and receptor signal transduction research. Previous experience in molecular target-based drug discovery is also desirable. Qualified individuals will work within the drug discovery group exploring cellular signaling pathways and designing/implementing secondary assay systems to analyze potential therapeutics.

EXPRESSION CLONING

Code: S-EC BS/MS scientists with a minimum of 2 years experience or Ph.D. scientists with minimum 3 years experience in molecular biology and gene cloning. Strong molecular biology skills and cell culture techniques are required. Experience in cDNA library construction and screening or experience in Xenopus oocyte expression system is essential. Individuals in these positions will join expression cloning group involving the clone of G protein-coupled receptor genes.

In reward for your dedication, Cadus offers competitive salaries and benefits as well as career opportunities in a stimulating work environment. Please send your CV and List of References, indicating position of interest, to:

**Cadus Pharmaceutical Corporation, 777 Old Saw Mill River Road
 Tarrytown, NY 10591-6705; or E-mail to: hr@cadus.com.**

Check out our website at: www.cadus.com.

Cadus is an Equal Opportunity Employer

CADUS

PHARMACEUTICAL CORPORATION

...turning the Human Genome Project into Drug Discovery



Procter & Gamble

TOXICOLOGY STUDIES

The Human Safety Division of the Procter & Gamble Company has an immediate opening for a PhD or MS Toxicologist at our Miami Valley Labs near Cincinnati, Ohio.



Equal Opportunity Employer
No agency referrals, please.

Applicants must be presently authorized to work in the U.S. on a full-time basis.

• Toxicologist (Study Director)

Responsibilities include serving as an in-house Study Director on acute, subchronic and specialty GLP preclinical/safety studies incorporating multiple animal species and routes of test article administration; serving as a corporate toxicology consultant/resource to the Company's divisional toxicologists; and monitoring externally contracted safety studies and reviewing reports (some travel required).

Candidates with an MS or PhD in Toxicology or related field with two to five years experience conducting preclinical GLP toxicology studies are preferred. Board certification (DABT) and experience in a contract laboratory or a pharmaceutical/chemical industry preclinical laboratory are desirable. Working knowledge of international regulatory safety/toxicology guidelines is also desirable. The ability to summarize conclusions clearly and concisely regarding safety evaluations is essential, as is the ability to deal effectively with people from a wide variety of professional and technical backgrounds.

The Procter and Gamble Company is a world leader in research, development, manufacture and marketing of a wide variety of consumer products including laundry & cleaning, paper, cosmetic & fragrances, beauty care, food & beverage and health care products. The Company's annual sales exceed \$35 billion and annual R&D investment is more than \$1.5 billion.

P&G offers a competitive salary and benefits package placing it in the top 5% of U.S. companies. The Company's R&D organizations provide excellent opportunities for both personal and professional growth.

If you meet the qualifications for this position, please send a letter of introduction, resume, and list of publications to:

Dr. G.D. Owens

The Procter & Gamble Company • Doctoral Recruiting, Dept. KH

P.O. Box 538707 • Cincinnati, OH 45253-8707

E-Mail: ruter.jm@pg.com



Research at Mayo

The computer-aided molecular design (CAMD) lab at the Mayo Cancer Center/Pharmacology Department at Mayo Clinic Rochester seeks: (1) A research technician with a BS in computer science, chemistry, or biology to conduct routine and established computer simulations of ligand-receptor interactions. **Please refer to job posting #98-216.sci;** and (2) A research technician with a MS in synthetic chemistry and at least two years of experience in multi-step syntheses to make rationally designed ligands. **Please refer to job posting #98-215.sci.**

The Mayo Clinic, with a research budget in excess of \$130 million per year, provides an outstanding environment for the conduct of basic science in molecular medicine. The CAMD lab has a record of developing biologically active ligands with real world impact (e.g., we developed the highly potent and selective, low-cost bis-THA, AchE inhibitor, which was reported by Chemical & Engineering News, News of the Week Section, September 30, 1996, and has been brought to commercial market by RBI/Sigma). Resources include: NMR, Mass Spectrometry, fluorescence, research computing, and other core facilities; the state of the art synthetic equipment; Origin 2000 (8xR10K, 2 Gb memory and 72 Gb disk), 3 Origin 200 (6xR10K, 896 Mb memory and 13.5 Gb disk), Octane (2xR10K, 128 Mb and 4 Gb disk) and three shared Power Challenge servers. Mayo offers a competitive salary and benefit package.

Interested candidates should send cover letter and resume with the corresponding job posting number to:

Mayo Medical Center • Kaine A. Kerkhoff • Human Resources Staffing Center, OE-1 • 200 1st Street SW • Rochester, MN 55905 • Fax: 507-284-1445 email: kerkhoff.kaine@mayo.edu • www.mayo.edu

Mayo Foundation is an affirmative action and equal opportunity employer and educator.

The mission of Human Genome Sciences is to identify and develop drugs and diagnostic products based on its leadership position in the discovery and expression of novel genes from human, animal, plant, and microbial origin.

ASSOCIATE DIRECTOR MOLECULAR BIOLOGY

We currently have a position available for an Associate Director in our Molecular Biology Department, which focuses on identifying, characterizing, and developing novel therapeutic proteins for the HGS preclinical pipeline. The individual will be responsible for the initiation of new gene discovery strategies, management and development of the research staff, coordination of project teams, and maintaining own research group. Qualified individual must be highly motivated and show demonstrated creativity with a proven record of scientific achievement. Ph.D. in Molecular Biology or related science is required. **JOB CODE # SR2/6**

SCIENTIST/GROUP LEADER

We currently have an opportunity available for an individual to grow with HGS as a Scientist/Group Leader. Individual will initiate, direct, and execute scientific research activities with research staff on individual or group projects. The successful candidate will have experience in microbial vaccine and immunologic therapeutics. A microbiology background with experience in microbial genetics is essential. Experience with gram positive bacteria preferred. Strong publication record and leadership/managerial experience is a plus. Candidate must have the ability to lead 15-20 researchers. **JOB CODE # CR2/6**

HGS encourages the pursuit of academic excellence and offers a competitive benefits package, including educational reimbursement, subsidized health club membership, and a 401(k) with employer match. Look for us on the Internet at www.hgsi.com for additional information. For immediate consideration please send/fax your resume indicating job code # to **Human Resources Department, Human Genome Sciences, Inc., Job Code # , 9410 Key West Avenue, Rockville, MD 20850, FAX: (301) 309-1845. EOE, M/F/D/V.**



**UCR/UCLA PROGRAM
IN BIOMEDICAL SCIENCES**
DIVISION OF BIOMEDICAL SCIENCES
UNIVERSITY OF CALIFORNIA, RIVERSIDE
GROUP-BUILDING OPPORTUNITIES
IN THE MOLECULAR BASIS OF DISEASE

The faculty of the Division of Biomedical Sciences offer the opportunity for senior faculty to build a group and junior faculty to join a multidisciplinary group focused on the molecular basis of disease. Areas of special interest include cardiovascular disease, cancer biology, receptor and signal transduction-based disease, and ion-transport diseases, but applications are encouraged from all highly productive individuals who currently have substantial extramural funding. Currently, four full-time ladder-rank faculty positions are available to support fully or partially up to six M.D.- or Ph.D.-level scientists commensurate with experience. We anticipate filling these positions with a mixture of senior- and junior-level faculty where the number of senior faculty appointments will not exceed two. Space and initial complement funds are available and will be commensurate with past productivity and future needs.

The Division of Biomedical Sciences administers a joint accelerated 7-year B.S./M.D. program with the University of California at Los Angeles. The primary teaching duties of the faculty at UCR are equivalent to the first two years of medical school instruction. Faculty in the Division are expected to maintain a vigorous research program and to contribute to medical and graduate teaching programs. Teaching opportunities currently exist in immunology, histology, virology, gross anatomy, and pathology. All academic faculty appointments must meet the criteria of the University of California for rank and carry a requirement for research, teaching, and service. Initial review of applications will begin in February 1998, and the positions will remain open until filled.

Interested investigators should submit an application including a curriculum vitae; a description of research history and future directions; a history and the status of current funding, and the names of three references. Please include your e-mail address and fax number to: **Craig V. Byus, Ph.D., Chairman, Search Committee, Division of Biomedical Sciences, University of California, Riverside, CA 92521-0121. Telephone: (909) 787-4535, Fax: (909) 787-5504; e-mail: craig.byus@ucr.edu.**

The University of California is an Equal Opportunity/Affirmative Action Employer.



SCIENTIFIC DIRECTOR
Leonard and Madlyn Abramson Family
Cancer Research Institute at the
University of Pennsylvania Cancer Center

The UNIVERSITY OF PENNSYLVANIA seeks outstanding candidates for the position of Scientific Director of the newly created Abramson Family Cancer Research Institute.

International stature in a field of research relevant to cancer biology is an essential prerequisite for this position. Applicants must also demonstrate the administrative capabilities, leadership talent, and personal qualities required to build interdisciplinary cancer research programs.

Send letter of interest, curriculum vitae, and names of references to:



John H. Glick, M.D.
Chair, Committee to Search for a Scientific
Director of the Abramson Family
Cancer Research Institute
University of Pennsylvania Cancer Center
6 Penn Tower, 3400 Spruce Street
Philadelphia, PA 19104-4385

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TUCSON ARIZONA
CENTER FOR INSECT SCIENCE
Third International Symposium on
Molecular Insect Science
June 5-10, 1998
Snowbird, Utah, U.S.A.

Abstract Deadline: Extended to March 1, 1998
Advanced Registration Deadline: April 20, 1998
Registration Fee US \$200 if paid before
advanced registration deadline;
US \$250 if paid after the deadline and on site

Preview the preliminary program
and register for the meeting by visiting the
conference website:

<http://www.arl.arizona.edu/cis/symposium/main.html>

Please contact insects@ccit.arizona.edu with
questions or problems in connection with the
registration process.

University of Toronto
Faculty of Medicine
Department of Biochemistry

Applications are invited for two tenure-stream faculty positions to build on existing departmental research strengths. Both positions will be located in the Medical Sciences Building on the downtown campus of the University of Toronto, which is directly adjacent to several excellent hospital-based research institutes.

Requirements include a Ph.D. degree or equivalent and at least two years of postdoctoral training. The successful applicants will be expected to establish excellence in an independent research programme, to compete effectively for external funding, and to contribute to the Departmental teaching programmes. Effective July 1, 1998, the appointments will normally be made at the Assistant Professor level, although outstanding applicants at a higher level will be considered. Salary will be commensurate with qualifications and experience.

Applicants should forward a curriculum vitae outlining current and long-term research objectives and arrange for three letters of reference to be sent directly to:

Dr. P. N. Lewis, Chair, Department of Biochemistry, University of Toronto, Toronto, Ontario M5S 1A8 Canada.
The closing date for applications is May 1, 1998. **WWW site:**
<http://bioinfo.med.utoronto.ca>.

In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples, and persons with disability.

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

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Business Development positions require your ability to perform applied research in the life sciences to help evaluate and develop new products and technologies. We are seeking Scientists and Research Associates with broad knowledge of biochemistry and molecular biology. Greatest consideration will be given to candidates familiar with analytical instrumentation and detection technology and knowledgeable in genomics and pharmaceutical screening. Depending on the level of the position, a PhD or MS or BS degree in a life science is required as well as several years of laboratory experience.

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- Applications Manager
- Applications Specialists
- International Sales Manager
- Sales Administration Manager

Sales and sales support positions require you to use your knowledge of science and analytical instruments to support our sales force and customers. A bachelors degree in life science, 2-5 years lab research experience, and willingness to travel are required.

Marketing & Applications

- Marketing Manager
- Product Manager
- Applications Scientists

Marketing and applications positions require you to identify, evaluate or coordinate marketing strategies and to champion specific product lines. Depending on the level of the position, a PhD or MS or BS degree is required as well as relevant applications or marketing experience.

We offer competitive salaries, comprehensive benefits, and the challenge and excitement of working with other scientists in developing, marketing and supporting life science research instrumentation and technologies. Please send your resume (indicating position desired) with salary history to: Director of Human Resources, Packard Instrument Company, 800 Research Parkway, Meriden, CT 06450, USA. Or email your resume to: pi-jobposting@packardinst.com



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- tant new drug discoveries that will have world-wide impact.

POSTDOCTORAL FELLOWSHIP Cardiac Proteomics

A Postdoctoral Research Fellow is needed to undertake a proteomics-based approach towards the characterization of protein expression profiles in myocardial disease states. Various state-of-the-art 'proteomic' technologies will be applied such as large-scale 2-D electrophoresis, analytical protein identification techniques including mass spectroscopy, and bioinformatics to establish protein databases for cross-correlation with available protein/genome banks. Studies on the regulation of novel cardiac proteins by post-translational mechanisms will be a significant focus. The project will be an integral component of a broader initiative into proteomics within Parke-Davis staffed by internationally-recognized scientists.

Qualifications should include a Ph.D. in Biochemistry, Cell Biology, or related fields, with expertise in protein biochemistry and immunoprecipitation. Prior experience with 2-DE gels, mass spectroscopy, sequencing, and protein modification analysis are desirable. Excellent interpersonal skills, a high motivation level and ability to work in a team environment are essential. Established research record required along with expectation of further peer-reviewed scientific communication. Job Code: CJM-985309

POSTDOCTORAL POSITION Regulation of Gene Expression

A Postdoctoral position is available in the Department of Cell Biology at Parke-Davis for highly motivated and independent individuals interested in the regulation of gene expression. The department consists of a highly interactive group of scientists dedicated to understanding mechanisms underlying metabolic, cardiovascular and proliferative diseases. Research opportunities are available in the laboratory of:

Bruce Markham - Transcriptional regulation and signal transduction related to the development and pathological states of cardiac muscle.

Applicants should be recent M.D. or Ph.D. graduates with a strong background in molecular and cellular biology or related area. The Department of Cell Biology provides an excellent research environment with exceptional facilities, seminar series and support services. Interaction with our colleagues at nearby University of Michigan and other academic institutions are encouraged. Job Code: CJM-974183

Join the dedicated professionals at Parke-Davis and enjoy a new level of research freedom, competitive salaries, benefits and career growth potential. For consideration, mail, fax, or e-mail resume* and cover letter, indicating the Job Code of interest, to: **Parke-Davis Pharmaceutical Research, Human Resources Department, 2800 Plymouth Road, Ann Arbor, MI 48105.** Fax: (313) 998-3394. Email: resume@aa.wl.com

*Please submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.

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RESEARCH SCIENTISTS/ENGINEERS

Gillette Research Institute, a division of The Gillette Company, seeks creative and highly motivated Research Scientists/Engineers who will be involved in research leading to the development of new personal care products. Experience in academic or industrial research is highly desirable.

Biochemist - Candidates must have a Ph.D. in Biochemistry/Pharmacology or related discipline and a minimum of 2 years of post-doctoral research experience. An understanding of metabolic pathways and their regulation is required. Additional knowledge of tissue culture technology, hair and skin biochemistry and analytical techniques would be an advantage.

Inorganic Chemist - Candidates must possess a Ph.D. in inorganic chemistry with at least 2 years of postdoctoral or industrial experience. Experience in solid state, sol-gel, solution, and precipitation synthetic methods, and experience with surface and bulk characterization methods is required. Previous experience with aluminum compounds is desirable.

Mechanical Engineer/Tribologist - Candidates must have a Ph.D. or equivalent experience and training in tribology and/or solid mechanics. Strong scientific and experimental skills are required for this position in the research and evaluation of shaving products. Previous experience in consumer product research and development is desirable.

Gillette Research Institute is located in a facility outside Washington, D.C. in a region that includes a wide variety of government, private and academic scientific laboratories. We offer an excellent compensation and benefits package. Qualified candidates should forward a resume to:

Gillette Research Institute
Human Resources Department
401 Professional Drive
Gaithersburg, MD 20879
Fax: (301) 590-1575
Email: nancy_richards@gillette.com

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Biology Faculty Positions

Northern Michigan University Biology Department invites applications to fill three faculty positions beginning August 1998. While four descriptions are presented below, it is anticipated that one position will be filled by a new Department Head. Probable teaching assignments are indicated. All positions require the Ph.D. and are tenure-earning.

Northern Michigan University, the major comprehensive institution of higher education in the Upper Peninsula of Michigan, is located in the City of Marquette (population 22,000) on the shores of Lake Superior and has a faculty of 317, a student population of about 8,000 students, and a campus of 323 acres. The University's setting offers numerous opportunities for field studies designed to take advantage of the Upper Peninsula's vast array of terrestrial and freshwater habitats, including the limnology of Lake Superior. Faculty and students will enjoy state-of-the-art laboratory facilities upon completion of the \$47 million renovation and expansion of the Glenn T. Seaborg Center Complex.

Application review begins 3/1/98 and continues until positions are filled. Send curriculum vitae, statement of teaching and research philosophy, and names, addresses, telephone numbers, and e-mail addresses of three references to: **Chair, Faculty Search Committee/Dept. Of Biology/1401 Presque Isle Avenue/ Marquette, MI 49855-5341, (906)227-2310ph, (906)227-1062(fax), http://www.nmu.edu/biology.**

Wildlife Biology (Asst/Asst Prof)

Broad expertise in wildlife ecology or related field. Teaching responsibilities include Wildlife Mgt., Ecol., and Pop. Ecol.; special consideration given to applicants also qualified to teach Ornithol., Mammal., and Intro. Biol.

Biology of Lower Plants (Asst Prof)

Broadly trained in botany with specialization in some aspect of ecology, evolution, morphology, or systematics of lower plants or fungi. Teaching responsibilities include Intro. Biol. and Plant Kingdom; special consideration given to applicants also qualified to teach other biology courses including Microbiol.

Developmental Plant Biology (Asst Prof)

Expertise in application of molecular techniques in study of plant development. Teaching responsibilities will include Intro. Biol. and Plant Physiol.; special consideration given to applicants also qualified to teach existing courses in genetics, develop. biol., and molec. biol.

Entomology/Invertebrate Zoology (Asst Prof)

Broadly trained invertebrate zoologist with specialization in some aspect of ecology, evolution, morphology, or systematics. Teaching responsibilities include courses in entomol. and invert. zool.; special consideration given to applicants also qualified to teach other courses such as Intro Biol. Additional responsibility will be maintenance of insect collection.

NMU is an AA/EOE

The Science of Agricultural Genetics

RESEARCH ASSOCIATE (Job #CP-807) Crop Protection — Insect Resistance

An individual is needed to play an integral part in the development of insect resistant transgenic plants. This scientist will function as an integral part of a group with a broad range of responsibilities, ranging from discovery and characterization of insecticidal principles to expression of these principles in transgenic plants. An M.S. with two years of experience or a B.S. with four years experience in the area of molecular biology is required.

We currently have a need for scientists with experience in cloning, designing and characterizing insecticidal proteins. A high level of competence with routine procedures of molecular biology, especially cloning and characterizing genes, is a must. The successful candidate will preferably have experience with insecticidal proteins, insect cell culture, ligand binding or immuno-histochemistry, and insect resistant transgenic crops. Familiarity with techniques of cosmid cloning or phase display is preferred. Familiarity with corn and its associated insect pests is desired. Participation in other facets of research to develop insect resistant transgenic crops is expected. This includes expression of foreign genes in plants and characterization of the mode of action of insecticidal proteins. This position requires the ability to interact with other researchers. Good communication skills are a must. Other responsibilities include providing management and scientific leadership when initiating, designing, and executing research within/across projects. Monitor research progress and meet with participating researchers to identify problems and opportunities impacting the business unit. Remain current on new technology by participating in professional meetings, career development activities. Communicate with research manager and project coordinator on progress of product opportunities and make recommendations.

Pioneer Hi-Bred International, Inc. offers competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number, by March 7 1998 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #CP-807), P.O. Box 1004, Johnston, IA 50131-1004.

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Inc., is the world leader in agricultural genetics.

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Mitotix is a biotechnology company developing cell-cycle based biotherapeutics for cancer, cardiovascular and infectious diseases.

SCIENTIST

We are seeking an individual with a Ph.D. in Cell Biology with 2-3 years' postdoc experience in molecular biology or biochemistry to design and create cell assays specific for target enzymes. The successful candidate will be responsible for current assays, determine future needs for developing programs, and create reagents to meet those needs. Expertise in FACs analysis, immunofluorescence, and regulated gene expression in mammalian cells is essential. **Job Code: SW98**

ASSISTANT SCIENTIST

This position requires a BS/MS with experience in mammalian cell culture and genetic manipulation, FACs analysis and immunologic techniques. 2-3 years' laboratory experience is essential. The successful candidate will implement cell-based assays for compounds targeted to specific molecular targets and have direct involvement in the creation of reagents required for the drug discovery programs at Mitotix. **Job Code: ASW98**

SCIENTIST

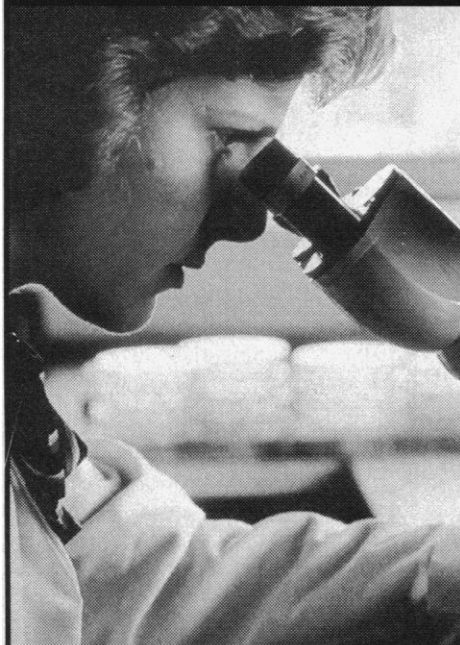
This position requires a Ph.D. in Molecular Biology and 2-3 years of postdoctoral training. The ideal candidate should have experience with the development or manipulation of retrovirus or lentivirus-based gene delivery systems. **Job Code: SG98**

Mitotix offers competitive salaries, benefits and a chance to work in an exciting scientific environment. Please send resume to: **Human Resources, Mitotix, Inc., One Kendall Sq., Bldg. 600, Cambridge, MA 02139; www.mitotix.com** EOE.



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- U.S. citizens or resident aliens with no more than 5 years of post-doctoral research training in the areas of basic, clinical, or population based biomedical research are invited to apply.
- Applications are due April 24, 1998.

For more details, contact:

Vincent J. Cairoli, Cancer Training Branch, National Cancer Institute
301-496-8580 ■ 301-402-4472 (Fax) ■ VC14Z@nih.gov ■ <http://www.nci.nih.gov>

**THE EARTH SYSTEM SCIENCE INTER-DISCIPLINARY CENTER (ESSIC)
UNIVERSITY OF MARYLAND, COLLEGE PARK
THREE TENURED/TENURE-TRACK POSITIONS**

THE MISSION OF ESSIC

Earth System Science represents a comprehensive integrated approach to the study of the physical and biological functioning of the Earth. ESSIC's mission is to carry out preeminent research and teaching programs in Earth System Science that use measurements from space complemented by suborbital, ground-based, and laboratory measurements, underpinned by theoretical investigations and carried out within a framework of Earth System models. Its activities will include consideration of the various components of the Earth System and their variability resulting from interactions among these components at time scales from a few days to millions of years and at spatial scales from the local to global. The work of the Center will include physical, chemical, biological, and human dimensions of the Earth System. Its work will be supportive of NASA's Mission to Planet Earth as well as the broader U.S. Global Change Research Program.

The new Center has been recently formed through collaboration between the University of Maryland and NASA's Goddard Space Flight Center (GSFC). Three tenured/tenure-track positions are available, one of which will be filled by the Director of the Center. All three appointees will be expected to develop vigorous research and teaching programs in Earth System Science. Tenure will rest in the appropriate academic department related to the successful candidates' expertise.

DIRECTOR

The Director will provide scientific leadership of the Center and will be responsible for the day-to-day operation of ESSIC. The appointment is expected to be made at the Full Professor level. The Director will provide leadership in developing the research and teaching programs of the Center, especially in encouraging collaborative activities within and between

the University and GSFC. The successful candidate shall have an established national and international stature in Earth System Science research, as evidenced by an outstanding record of recent publications and competitive research funding, and substantial experience in managing interdisciplinary research and teaching programs.

TWO TENURED/TENURE-TRACK POSITIONS

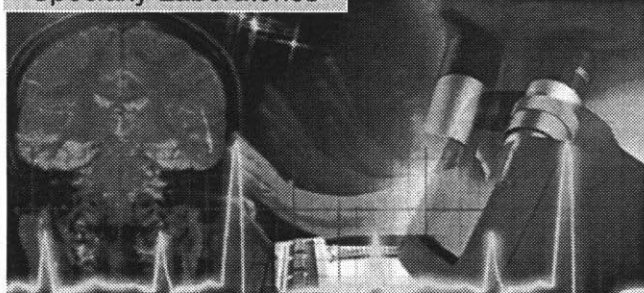
Candidates for two further positions are sought at the junior and senior professorial levels. The successful candidates should have already established a strong research record in Earth System Science and they will be expected to develop innovative research and teaching programs. They will be expected to show considerable initiative in developing collaborations with other scientists, especially at the University and GSFC.

The University of Maryland is an Affirmative Action/Equal Employment Opportunity Employer. Applications should be submitted by March 1, 1998, for best consideration and should be submitted to: **Chair of the ESSIC Search Committee, Department of Meteorology, Rm. 3433, Computer & Space Sciences Bldg., University of Maryland, College Park, MD 20742-2425.**

Applicants for the position of Director should provide a statement describing their vision of the direction to be taken by ESSIC, and how they will ensure its goals can be achieved. All applicants should include a statement of research and teaching interests indicating how the candidate envisions contributing to ESSIC's research and teaching activities, a signed current CV, and the names and addresses of at least four referees. Applicants are encouraged to submit copies of up to 3 recent publications.

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Director of Development Laboratory

The ideal candidate will possess a Ph.D. in Biochemistry or Immunology or related field with a minimum of 10 years of experience. Knowledge of immunoassay development, project management, experience on GMP and/or ISO regulations, and the ability to lead a team of scientists for product development are essential. Excellent interpersonal and communication skills, computer literacy, self motivation and ability to interact with multi-function departments is required.

This opportunity is located in Asia. Candidates must be willing to relocate and station in Asia.

If you're ready to explore the frontiers of laboratory science, consider the rewarding advantages of Specialty Laboratories. We offer highly competitive compensation and comprehensive, long-range benefits. Qualified candidates should respond to: **Specialty Laboratories, Inc., Attn: Human Resources Dept. DDL, 2211 Michigan Avenue, Santa Monica, CA 90404-3900; Fax: 310-586-7269; E-mail: santonoff@specialtylabs.com** Visit our web site at: <http://www.specialtylabs.com> We are an Equal Opportunity Employer.



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with the

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The National Research Council (NRC) is accepting applications for a competitive award for research to be conducted in residence at the US EPA's Gulf Ecology Division in Gulf Breeze, FL. Opportunity available to study the effects of xenobiotic chemicals on reproductive and developmental endocrinology of fish. Qualified applicants should have a strong background in molecular biology. Annual stipend for recent Ph.D. recipients is \$35,000 and is appropriately higher for more experienced researchers. Award is for one year, renewable for a total tenure of three years. Support is provided for relocation and professional travel, and a health insurance program is offered.

For Further Information Contact:

Dr. Leroy C. Folmar
US EPA, Gulf Ecology Division
1 Sabine Island Drive
Gulf Breeze, FL 32561
TEL: (904) 934- 9207
FAX: (904) 934-9201
email: folmar.leroy@epamail.epa.gov

Application, submitted directly to the NRC, are accepted on a continuous basis throughout the year. Those postmarked by April 15 will be reviewed in the June competition and by August 15 in the October competition.

For Application Materials Contact:

NATIONAL RESEARCH COUNCIL
The Associateship Programs (TJ2114/TG)
2101 Constitution Avenue, NW
Washington, DC 20418
FAX: (202) 334-2759
EMAIL: rap@nas.edu

POST-DOCTORAL POSITION

NUCLEIC ACID CHEMISTRY/ MICROARRAYS

**Environmental Microbiology
Group, Pacific Northwest
National Laboratory**

A position is immediately available in applying molecular methods to the detection and analysis of microorganisms in environmental samples. Experience with one or more of the following techniques is required: nucleic acid microarrays, peptide nucleic acids, RT-PCR, TMA, and quantitative PCR. Background in nucleic acid chemistry or nucleic acid biophysics is desired. Background in environmental (soil, sediment, ground water) molecular biology is preferred but not required.

A curriculum vitae including a brief discussion of past research activities, publications, and three letters of reference should be sent to **Dr. Fred Brockman, PO Box 999, Mailstop P7-50, Pacific Northwest National Laboratory, Richland, WA 99352. E-mail: fj.brockman@pnl.gov EOE**



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POSTDOCTORAL RESEARCH SCIENTIST/ RESEARCH ASSOCIATE

A 2-year position is available immediately at Children's Memorial Institute of Education and Research, an affiliated member of Northwestern University Medical School. The project goal is to elucidate the function of a new nuclear receptor, PPAR gamma, in the hematopoietic and related systems, primarily through the identification of target genes, developmental expression and related studies. This new area of study is experiencing current intense interest because of its incredible potential for therapeutic applications. The applicant should have a Ph.D. Degree in molecular Biology or related disciplines. Experience with tissue culture, transcription factor studies including gel shifts, footprinting and transfections, as well as northern, southern, and westerns is required. Experience with the nuclear receptor family, hematopoietic, immunologic or inflammatory studies, RNA display or related target gene studies is desirable. Innovative thinking and intellectual contributions are encouraged and highly respected. Salary is competitive, with attractive benefits. Interested candidates should send resume to: **Marianne Greene, CMIER Bldg., 2430 N. Halsted Street, #223, Chicago, IL 60614; Tel: (773) 880-8302; e-mail: mgreene@nwu.edu EOE**

Associate Director of Vaccine and Prevention Research (GS-15)

The Division of AIDS (DAIDS), NIAID is seeking an outstanding physician (M.D.) or scientist (Ph.D.) to fill the very critical, high-profile position of Associate Director of Vaccine and Prevention Research. Incumbent will oversee a comprehensive Extramural program to discover promising HIV/AIDS vaccines and other biomedical prevention approaches and further their development through basic and clinical research on a global scale. The position is responsible for creating and implementing an overall research agenda and specific research initiatives involving diverse scientific disciplines.

Basic Qualifications (M.D./Ph.D.): Doctor of Medicine, Doctor of Osteopathy, or Ph.D. in a health or health-related research field, with comprehensive knowledge of the field of HIV vaccine research and development. Both M.D./Ph.D. or Ph.D. candidates must have expertise in managing a complex biomedical research program and the ability to inspire and

lead a dedicated staff with expertise in areas that include microbiology/immunology, infectious diseases, public health, international health, and clinical site monitoring. The position requires highly developed interpersonal and communication skills in order to interact effectively with representatives of academia, private industry, other national and international research and health organizations and government agencies, the scientific and lay press, and the general public.

SPECIFIC APPLICATION PROCEDURES APPLY. For more information contact **Sheila Conner at 301-402-0957 or sc23@nih.gov.**

Salary commensurate with experience and level of accomplishment and will range from of \$75,620 to \$96,887 (M.D's) and \$75,935 to \$98,714 for non-M.D's. Recruitment Bonus/Relocation expenses up to 25% of base pay or Physicians's Comparability Allowance (M.D's) may be available.



United States Environmental Protection Agency Postdoctoral Program National Exposure Research Laboratory

The U.S. Environmental Protection Agency (EPA) is seeking candidates to fill as many as **50 federal, three-year postdoctoral research positions** during the coming year. As part of this effort, a number of these positions will be filled at the EPA's National Exposure Research Laboratory (NERL). NERL conducts research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. This research encompasses areas such as environmental monitoring and characterization (physical, chemical, biological, and microbiological); computer modeling of the transport, transformation, and fate of pollutants in multiple media and at multiple scales; human and ecological exposure analysis (including the development of exposure biomarkers and bioindicators); waste site characterization; remote sensing; and landscape ecology. NERL also field-tests, evaluates, and demonstrates the applications of these findings to environmental problems of national importance to EPA's regulatory and regional offices, other federal agencies, and state, local, and tribal governments. Among NERL's current priorities are exposure of humans to airborne particulate matter and emerging pathogens in water supplies; exposure of children to pesticides; exposure of humans and ecosystems to endocrine disruptors; multi-pathway exposure modeling in humans; development of integrated multimedia transport and fate models; and assessment of the relative importance of exposure to a variety of stresses in regional ecosystems and large watersheds.

Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including environmental science, chemistry, physics, biology, microbiology, ecology, geography, applied mathematics and statistics, human health sciences, meteorology, computer science, and environmental or chemical engineering. The preferred candidate will have earned a Ph.D. in one of these areas within the last five years.

The NERL postdoctoral positions will be located in a division at either Research Triangle Park, North Carolina; Cincinnati, Ohio; Athens, Georgia; Las Vegas, Nevada; or Reston, Virginia, depending on the particular disciplinary focus, and will be filled beginning **September 1998**. These term appointments will last for three years and offer a salary range of **\$38,593–\$60,135**, commensurate with qualifications. The selected candidates will be eligible for a **full benefits package**, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. *United States citizenship is a requirement of all these jobs.*

If you are interested in these postdoctoral positions, please send a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus and the geographic location(s) you prefer to Ms. Terri Burrell, U.S. Environmental Protection Agency, National Exposure Research Laboratory (MD-75), Research Triangle Park, NC 27711, Attn: Postdoctoral Positions. Please respond to this advertisement no later than **March 31, 1998**. After all responses are reviewed, candidates will receive written notice of the next stage of the application process no later than **June 15, 1998**.

For more information on the complete EPA postdoctoral program, you may access the Office of Research and Development's Internet site at <http://www.epa.gov/ord/>.

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Selected candidates will exceed the medical information needs of customers with diverse needs in highly technical disease entity, medical economic, and/or product information areas. Candidates will represent our group to thought leaders within academic communities. You will identify, establish, and/or maintain service relationships by providing up-to-the-minute, well researched information to clinicians, investigators, and institutions who impact product purchasing decisions. Positions are available in various locations throughout the country.

The positions require extensive experience in gastrointestinal, cardiovascular, or managed care areas. We are seeking individuals with M.S., Pharm.D., Ph.D., or M.D. credentials or similar experiences who have highly developed interpersonal and computer skills as well as a commitment to public health and welfare.

We offer a highly competitive compensation and benefits package. Please mail/fax resumes to: **Astra Merck Inc., Human Resources, Attn: Terry Shields, 725 Chesterbrook Blvd., Wayne, PA 19087. FAX: 610-695-4450.** We are an equal opportunity employer.

JOHN AND JANICE FISHER CHAIR OF EXERCISE SCIENCE AND DIRECTOR OF THE HUMAN PERFORMANCE LABORATORY BALL STATE UNIVERSITY MUNCIE, INDIANA

Ball State University seeks nominations and applications for the John and Janice Fisher Chair of Exercise Science. Minimum qualifications: earned doctorate with specialization in exercise physiology; documented national/international impact of scholarly work in exercise physiology; excellent record in teaching and advising graduate students; experience in acquiring external research funding; effective communication skills; demonstrated organizational and interpersonal skills. Preferred qualifications: experience as a director of a research laboratory; administrative experience.

A strong intellectual ability and enthusiasm to work with highly talented students and faculty is a must. The chair is expected to provide academic leadership in the continuing development of the curriculum and research agenda of the Human Performance Laboratory. The Laboratory is housed in a new 16,000 sq. ft. facility with state-of-the-art equipment. The Laboratory is provided annual funding for 7 doctoral fellows and 12 master's graduate assistants.

Ball State is a comprehensive regional Doctoral I university with approximately 890 faculty and 18,500 students located in Muncie, Indiana, approximately 55 miles north of Indianapolis.

Review of applications will begin February 23, 1998, and will continue until the position is filled. Submissions should include a letter of application; current résumé; transcript of highest degree held; and the names, addresses, and telephone numbers of three references. Applications should be sent to: **Dr. Duane Eddy, Chair, Search Committee, Ball State University, Muncie, IN 47306.** Ball State University's Web address is: <http://www.bsu.edu/>.

Ball State University is an Equal Opportunity, Affirmative Action Employer and is strongly and actively committed to diversity within its community.

CANCER PREVENTION RESEARCHER

The H. Lee Moffitt Cancer Center & Research Institute and the College of Medicine at the University of South Florida are seeking applicants for a tenure-earning Assistant or Associate Professor faculty position for a laboratory based independent researcher with expertise in translational research. This position will be in the Cancer Prevention Program.

The successful candidate will be a doctoral level (M.D. or Ph.D.) investigator who will have responsibility for conducting laboratory research in the area of molecular markers or susceptibility for early detection of preneoplastic conditions and early cancer. This research should lead to the design of interventions to target these markers with chemopreventive agents. The successful candidate will also have an established track record of obtaining external funding, and for rank of Associate Professor, five years academic or research experience at, or comparable to, the Assistant Professor level.

H. Lee Moffitt Cancer Center & Research Institute, a National Cancer Institute designated cancer center, is adjacent to the Health Sciences Center of the University of South Florida.

Send inquiries and current curriculum vitae to: Gail Shaw, M.D., Program Leader, Cancer Prevention, H. Lee Moffitt Cancer Center & Research Institute, 12902 Magnolia Drive, Tampa, Florida 33612. Applications must be postmarked by deadline date of April 30, 1998.



**H. LEE MOFFITT CANCER CENTER
& RESEARCH INSTITUTE**
University of South Florida College of Medicine

Moffitt Cancer Center is an Equal Opportunity Employer
The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award degrees at the baccalaureate, master's, specialist and doctoral levels, including the Doctor of Medicine.

The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer.
For disability accommodations please contact Jody Swanson at (813) 975-7894
a minimum of five working days in advance.

Washington State University

VICE PROVOST FOR RESEARCH

Washington State University is inviting applications and nominations for the position of Vice Provost for Research.

The Vice Provost of Research shall:

- Serve as chief administrative officer of research;
- Strengthen the relationship/visibility of WSU with granting institutions;
- Advocate research endeavors and facilitate interdisciplinary and intercampus research projects;
- Ensure institutional compliance with government regulations;
- Communicate effectively the research role of the University.

QUALIFICATIONS

- An earned doctorate or equivalent terminal degree, an academic record sufficient to merit appointment as a tenured full professor;
- Demonstrated success in obtaining external grants and/or contracts;
- Service on federal research review committees, advisory boards, or policy and planning committees, preferably having been involved in shaping national-level policy;
- Familiarity with public (state and federal) and private research funding sources;
- Knowledge of the research and development needs of the private sector;
- Strong written and oral communications skills;
- An understanding of national trends affecting academic research and ability to develop a strategic research plan;
- Familiarity with a range of disciplines and diversity of a major research and land grant university.
- Administrative experience of at least the level of academic department chair or equivalent.

Screening of applicants will begin on March 20, 1998, and will continue until the position is filled. Appointment is anticipated July 1, 1998. Applicants should submit a letter of interest, curriculum vitae, and four letters of reference. Inquires, nominations, and applications should be sent to: **Professor Robert Harder, Chair, Vice Provost for Research Search Committee, Washington State University, P.O. Box 646226, Pullman, WA 99164-6226, e-mail: harderb@wsu.edu.**

Washington State University is an EO/AA Educator and Employer. Protected group members are encouraged to apply.

Outstanding Research Is Our Primary Objective.

Becton Dickinson, the preeminent leader in clinical microbiology diagnostics, is embarking on its next generation of molecular diagnostics. Opportunities for Scientists, Engineers and Research Associates are available at its central research laboratory in Research Triangle Park, North Carolina.

Scientists

We are seeking highly qualified and driven PhD Scientists with 2-10 years of experience. Scientists should have degrees in areas such as Molecular Biology, Molecular Microbiology, Molecular Genetics, Biochemistry, Analytical Chemistry, Biophysical Chemistry or Biotechnology with first-hand experience in antibiotic resistance, molecular diagnostics, high-throughput polymorphism detection, and/or gene expression analysis.

Engineers

Engineers should have degrees (BS, MS or PhD) in areas such as Biomedical Engineering, Material Sciences, Chemical Engineering or Mechanical Engineering with 2-10 years of experience in instrument design, material/polymer sciences, nanotechnologies, medical devices or analytical chemistry.

Research Associates

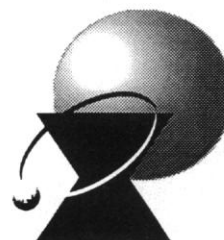
Research Associates should have BS or MS degrees with 3-5 years of experience in Molecular Biology, Molecular Microbiology, Molecular Genetics, Biochemistry, Analytical Chemistry, Biophysical Chemistry or Biotechnology. Working experience in antibiotic resistance, molecular diagnostics, high-throughput polymorphism detection, and/or gene expression analysis is desired.

We provide competitive salaries and comprehensive benefits including a 401(k) plan. Please forward your resume to: **Human Resources, Becton Dickinson, Research Center, 21 Davis Drive, Research Triangle Park, NC 27709.** AA/EOE Employer.

BECTON DICKINSON

The Rewards of Discovery.

Scientists/ Senior Scientists



Headquartered in the San Francisco Bay Area, **Megabios Corporation** is a progressive biotechnology company providing proprietary gene delivery systems & preclinical development expertise to create gene-based therapeutics for the treatment and prevention of genetic & acquired diseases. All Megabios programs are aimed at utilizing gene therapy technology and Megabios' proprietary non-viral delivery systems. Our continued growth has created an excellent opportunity for a select group of hands-on Scientists to join our interdisciplinary R&D team.

Molecular Biology

Reporting to the Director of Molecular Biology, you will join a fast-paced, goal-oriented team focused on the development of novel gene therapy vectors. You will also help sustain extramural collaborations, and participate in cross-departmental projects with the Life Sciences, Pharmaceuticals & Delivery, Bio-Processing and Cardiovascular departments. The successful candidate will have a Ph.D. or equivalent in molecular biology or cell biology or a related field along with at least 3 years of postdoctoral experience using the tools of molecular biology. A background in transcriptional regulation would be useful, but creative candidates from a variety of backgrounds will be considered. Previous industrial experience would be helpful, but is not essential. (Job Code: LF/SCI)

Histotechnology/Pathology

In this key role, you will be responsible for image analysis, tissue staining, and pathological specimen interpretation. Additional responsibilities include developing and performing staining techniques, interpreting slides, and preparing summary reports. Qualifications include a DVM or Ph.D. in biology, histology, pathology or related field and 5+ years' research experience. Experience in flow cytometry is desirable. (Job Code: BLW/SCI)

Assay Development

Working with senior investigators, you will help develop, optimize and implement quantitative assays for the detection of therapeutic and marker gene products expressed in in vivo mammalian models. You will also be responsible for the development and implementation of bioassays for protein function analysis, assay troubleshooting and data analysis. Qualifications include a Ph.D. and 1 or more years' experience in a biotechnology/QC environment. Experience with electrochemiluminescent techniques, and with the use of the ORIGIN analyzer is preferred. Proficiency with Macintosh and IBM data reduction software is required. (Job Code: JV/SCI)

We offer a highly competitive compensation & benefits package, and a fast-paced, team-oriented setting that values the contributions of our diverse workforce. Please send your resume to:

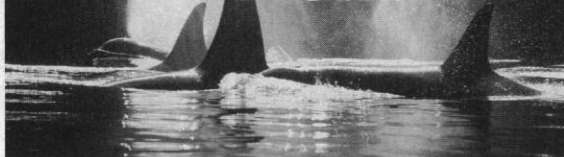


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NEARLY AS INTERESTING.

It's all part of our "traditional" approach to immune system science. For over 15 years, Immunex has maintained a very non-traditional level of investment in biomedical research. This has helped make us one of the most advanced companies focused on the discovery, development, manufacture and marketing of products to fight against cancer and immune system diseases. At our Seattle headquarters, you'll find 300 of the world's most prolific scientists, working in one of the most dynamic, picturesque cities in the country.

STAFF SCIENTIST

This research program focuses on human dendritic cell development/differentiation, the role of DC subsets in immunoregulation and the effects of Immunex proprietary recombinant molecules on these processes. Involves coordinating the examination of clinical samples from DC-based immunotherapy studies, and establishing protocols for Flt3L utility in DC-mediated immunotherapy of cancer and infectious disease strategies. Candidates will have a solid background in dendritic cell biology and methodologies in DC isolation and functional examination, with a focus on the human system. **Job #98-0008.**

ASSOCIATE STAFF SCIENTIST

This research program will focus on phenotypic and functional analysis of mouse DC subsets in vitro and in vivo, and determination of effects of novel immunoregulatory molecules on DC-based activities such as antigen-processing, lymphocyte activation and tolerance induction. Successful candidate will have 3+ years postdoctoral experience with a solid background in DC biology and relevant mouse in vivo experimental models. **Job #98-0008A.**

BIOINFORMATICS SCIENTIST

This research program will focus on identifying novel genes of potential therapeutic value from proprietary and public data sources. Will assist in the development of new bioinformatics-driven gene discovery research efforts. Ideal candidate will have a Ph.D. in the biological or physical sciences with a strong background in computer-assisted DNA and protein sequence analysis. Must be familiar with protein families and data analysis in the context of Human Genome Initiative and other genomic sequencing projects. Excellent interpersonal and written/verbal communication skills are essential. Must have experience with UNIX operating systems. Knowledge of HTML/CGI programming, Perl, C/C++ or Java is highly desirable. **Job #98-0048.**

For specific information about these positions, please visit our web site at <http://www.immunex.com>.

Anything but a sterile environment. Immunex is just as advanced when it comes to the well-being of our employees. Our award winning "work life" programs received national and state-wide recognition.

From a daily ferry commute where the roadside attractions might include a pod of Orcas, to its world-class restaurants and entertainment scene, Seattle is a most uncommon place in which to live. Just as Immunex is a most uncommon place in which to work.

We offer award winning benefits and highly competitive total compensation packages. Please submit resume (Immunex utilizes scanning technology) to: **Immunex Corporation, Attn: Human Resources, (Please specify Job #), 51 University St., Seattle, WA 98101-2936. FAX: (206) 623-4572. Jobline: (206) 389-4060.** Equal Opportunity Employer.

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THE CURE FOR THE COMMON COMPANY

Antarctic Support Associates is the principal research support contractor to the National Science Foundation (NSF) Office of Polar Programs, which funds U.S. research programs in Antarctica. Currently we have the following full-time opportunities:

Laboratory Supervisor

Responsible for the safe operation and management of laboratories at Palmer Station, Antarctica. Laboratories to be maintained include analytical chemistry, microscopy, molecular biology, radioisotope, and seawater aquarium. An M.S. or M.A. degree in a natural science is desired, molecular biology preferred. Laboratory technical work and management experience highly desirable. The position requires a deployment to Antarctica of approximately six months per year.

Analytical Chemist

Responsible for the operation and maintenance of analytical instruments (CNS, GC, HPLC, AA, TOC, IC, etc.) at McMurdo Station, Antarctica. The successful candidate must have in-depth experience in the instruments and methods used in analytical, environmental, and molecular biology laboratories. Qualifications include a B.S. (or higher) degree in Chemistry with three to five years of experience, and the candidate must have excellent skills in developing/managing financial plans, communication, supervision, and writing. Antarctic deployment is approximately four to five months per year.

Pre-season planning for laboratory support for scientists is conducted in Englewood, CO for both positions. Proof of U.S. citizenship is required and all applicants must be able to pass strict physical and dental exams for deployment to Antarctica. For consideration, please fax or send a resume and cover letter no later than February 28, 1998.



**Antarctic Support Associates
Response Code AN/MM
61 Inverness Drive East, Suite 300
Englewood, CO 80112
Fax: 303/790-9130**

EOE

A New Generation of Disease Prevention

Scientists/Senior Scientists Protein Chemist

Prevention represents the optimal strategy against infectious disease. **North American Vaccine, Inc.** is a leader in the development of safe and effective vaccines - the cornerstone of this effort. Join us as we develop and market the next generation of vaccines for the next generation of children.

Appropriate candidates should possess a Ph.D in Biochemistry or related field with a min. of 3 yrs. biotech industry exp. Specific exp. in protein/polysaccharide downstream process development/scale up, column chromatography, ultrafiltration, chemical/immunological assay development and biological product manufacturing is highly desirable. Excellent verbal and written communication skills are required.

We are based in Maryland, 20 minutes north of Washington, DC and offer competitive salaries and benefits. Interested individuals should send a curriculum vitae or resume indicating position # 645-J to:

**North American Vaccine, Inc.
Human Resource Manager
12103 Indian Creek Court
Beltsville, MD 20705-4223
FAX (301) 470-6021
e-mail: HR@nava.com**

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NORTH AMERICAN VACCINE, INC.

Senior Flow Cytometry Specialist

Vancouver Cancer Centre

The BC Cancer Agency is a comprehensive province-wide cancer treatment and research organization.

In this challenging position, you will collaborate with a diverse group of basic science and clinical research scientists working within a translational research department focused on development and evaluation of cancer therapeutics.

You will be expected to collaborate with research investigators in the design and analysis of flow experiments and in cell staining techniques. In this regard, you will instruct researchers (graduate students and post-doctoral fellows) on the operation of the cytometer and the use of data analysis software. Your primary responsibility will be to maintain, calibrate, align and operate a Coulter EPICS Elite ESP high-performance cell sorter. This activity will include scheduling, ordering of supplies, computing monthly utilization and otherwise administering the facility on a cost-sharing basis.



BC Cancer Agency

You have at least 2 years' flow cytometry and cell sorting experience as well as an established publication record and demonstrable skills in technical writing. You will be provided with research space and consumable supplies with the expectation that you will work with research scientists in developing a basic science research program in cancer biology. Consequently, you should be eligible for preparation and submission of operating grant request(s) to support your independent research program(s). This is a core-funded position that will be reviewed annually.

An attractive salary and benefits package is offered. If you wish to apply for the above position, please send your complete c.v. along with 3 letters of support to: Dr. Marcel B. Bally, Senior Research Scientist & Team Leader - Section of Advanced Therapeutics, Department of Medical Oncology, BC Cancer Agency, 600 West 10th Avenue, Vancouver, BC V5Z 1L3. Telephone: (604) 877-6098 ext. 3191; fax: (604) 877-6011; e-mail: Mbally@unixg.ubc.ca

M10601

FACULTY POSITIONS BIOMEDICAL ENGINEERING WPI

The Biomedical Engineering Department (BME) of Worcester Polytechnic Institute (WPI), supported by The Whitaker Foundation Special Opportunities Grant, invites applications for a tenure track position at the assistant or associate level, to begin as early as July, 1998. Applicants, with an earned doctorate, are expected to have a strong commitment to high quality undergraduate and graduate engineering education, develop strong partnerships with medical device industry, as well as a strong research program. The faculty position is in the area of biomedical instrumentation and biosensors. Candidates with complementary backgrounds in physiological systems and biomedical imaging will be given strong preference.

WPI is an innovative technological university of engineering, science, management, humanities, arts and social science with an enrollment of 2700 undergraduates and 1000 part- and full-time graduate students. WPI is located in the high-tech region of east-central Massachusetts. The department offers BS, MS and Ph.D. degrees and a joint Ph.D. program with the University of Massachusetts Medical School, two miles from WPI.

Please send a statement of research and teaching interest, a resume, and a list of three references with addresses and telephone numbers to: Search Committee, BME Department, WPI, 100 Institute Road, Worcester, MA 01609-2280. Applications will be accepted until the position is filled.

For additional information about the department and WPI see: <http://www.wpi.edu/Academics/Depts/BioMedEng/>

To enrich education through diversity, WPI is an affirmative action, equal opportunity employer.



U.S. DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS)



ARS is seeking a permanent, full-time Research Plant Pathologist, GS-12/13, in the Vegetable Laboratory, Plant Sciences Institute, Beltsville Agricultural Research Center, Beltsville, Maryland. Salary is commensurate with experience: GS-12: \$45,939-\$59,725 and GS-13: \$54,629-\$71,017 per annum, plus benefits. (Figures for pay increase for January 1998 are not yet available.) Incumbent will design and construct beneficial genes for genetic transformation of vegetable crops, particularly potato and tomato. In addition to basic educational requirements, applicants must demonstrate 1) knowledge of the principles, methods, techniques, and procedures of molecular plant biology/pathology and plant physiology; 2) knowledge of plant diseases especially those of horticultural crops; 3) ability to conduct research projects and publish the results of the research in areas of plant molecular biology/molecular plant pathology; 4) skill in using molecular and tissue/cell culture techniques (including gene cloning, DNA sequencing, plant tissue culture and transformation, etc.) in research; and 5) ability to design, plan, and conduct studies with plants at the cellular and/or molecular level. Ph.D. in Plant Pathology or related field is desirable. *Must be a U.S. citizen.* For information on the research program, contact Dr. A. K. Mattoo, 301-504-7380. To apply, applicants must call 301-344-4638 to request a copy of ARS-D8B-040 in order to properly file complete application. Applications must be postmarked by February 20, 1998. *ARS is an Equal Opportunity Employer.*



POSTDOCTORAL AND PREDOCTORAL TRAINING PROGRAMS

RESEARCH PROGRAMS
Genome Organization
Developmental Biology
Metabolic Diseases
Neurogenetics/Behavior
Genetics of Complex Traits
Cancer Genetics
Immunology/Hematology
Bioinformatics
Heart Disease/Obesity

The Jackson Laboratory: a unique research environment with unparalleled mouse resources.

Letters of inquiry should include: curriculum vitae, statement of research interests, list of publications, and names of three references. (Predoctoral program is in conjunction with the University of Maine.) To apply or request further information, contact: **Suzanne Serreze, The Jackson Laboratory, 600 Main St., Bar Harbor, ME 04609-1500. Phone: 207/288-6420; FAX: 207/288-6079; e-mail: sbs@jax.org; website: <http://www.jax.org>. EE/AA Employer.**

PHYSICS: TENURE-TRACK POSITIONS



The College of Liberal Arts of Mercer University seeks three full-time Physicists to fill tenure-track positions effective August 1, 1998. Pending approval, we shall be appointing a fourth tenure-track Physicist effective August 1, 1999. Of these posts, one may be for a new department Chair who can take the lead in working with colleagues to redesign the major. Fields are open, except that of one of the positions will be split with Environmental Science and carries the opportunity to work with us in developing wilderness expeditionary programs and kindred on-campus activities.

Rank: for Chair, Associate Professor; other positions at Instructor or Assistant Professor. Qualifications: for chair, earned doctorate, experience demonstrating excellence in teaching, appropriate scholarly and service activities; for Assistant Professor, earned doctorate in hand; for Instructor, all requirements for the Ph.D. except the dissertation. For both Assistant Professor and Instructor, evidence of strong promise of excellence in teaching, scholarship, service. Strong interest in recruiting faculty members interested in interdisciplinary teaching; actively seeking well-qualified female and minority candidates, and members of Phi Beta Kappa.

Duties: teach 21 s.h./year. Usual expectations for scholarship, service.

Apply to:

**Search Committee, Physics
c/o Douglas Steeples, Dean
College of Liberal Arts
Mercer University
1400 Coleman Avenue
Macon, GA 31207-0001**

Completed applications will consist in (1) a letter of application stating teaching interest and philosophy, scholarly foci; (2) a current c.v.; (3) official transcripts of all graduate work completed; (4) three confidential letters of reference sent directly to search committee. Review of applications will begin immediately and will continue until the positions are filled.

Mercer University is an institution of 7,000 students pursuing degrees in seven schools and the College of Liberal Arts. The College, the historic core of the University, shelters 20 departments, 105 faculty members, and serves 1,450 majors. It provides general education to an additional 600 Business, Education, and Engineering students. The University and College associate with a rich Baptist heritage educational programs distinguished by their rigor and by their commitment to academic freedom.

An AA/EEO Employer, Mercer strongly encourages applications from females and members of minority groups.

Biogen has established a unique record of success as the world's oldest independent biotechnology company. Pioneering research by our scientists has led to the discovery and development of a number of important new medical therapies. In 1996, we introduced our first proprietary product, AVONEX® (Interferon beta-1a), a treatment for relapsing forms of multiple sclerosis, and achieved our goal of becoming a fully operational biopharmaceutical company. Today we are seeking the following committed professional to join our expanding global team.



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SCIENTIST/SR. SCIENTIST - BIOASSAY

We are seeking a Ph.D. in immunology or immunochemistry with a strong molecular biology background, who will develop novel immunoassays and molecular biology assays to support product development. The assays will be aimed at defining the role of candidate drug molecules in the clinical setting, evaluating the activity of the molecules for QC, determining the mode of action of a drug (as a prerequisite to assay development), measuring the level of activity of a drug in preclinical and clinical studies, and examining factors that may influence pharmacological detection, such as binding to serum protein and degradation.

Successful candidates will have completed a post-doctoral fellowship with 3 years' industrial experience or have a Ph.D. and at least 5 years of relevant industry experience. Excellent presentation, communication and interpersonal skills as well as skills in documentation and rapid literature searches, are essential. Team-orientation, including a willingness to undertake any task to ensure the successful completion of a project, is critical.

Biogen offers what few companies in our industry can - Professional Challenge, Stability, Growth, and one of the strongest financial profiles in the industry. In addition, our compensation and benefits package, including equity participation, is one of the best in the industry, and is designed to attract and retain the finest talent available. Please forward your resume to: Biogen, Inc., Job Code: LS-SSB, Resume Processing Center, P.O. Box 708, Burlington, MA 01803; Fax: (617) 679-2546; E-mail: biogen@webhire.com Biogen is an Equal Opportunity Employer.

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Funded postdoctoral positions are available to study molecular and cellular responses to cytotoxic stress. Laboratory projects currently focus on: 1) biochemical pathways leading to p53 induction after cytotoxic stress, 2) molecular mechanisms of ATM ("ataxia-telangiectasia-mutated") function and, 3) growth factor signalling pathways and apoptosis signalling. Successful candidates will have a strong background in molecular and/or cell biological techniques. Experience in oxidative metabolism pathways would be a desirable bonus. Please send a letter of interest and curriculum vitae to:

**Michael B. Kastan, M.D., Ph.D.
Department of Hematology/Oncology
c/o Office of Academic Programs
St. Jude Children's Research Hospital
332 N. Lauderdale Street
Memphis, TN 38105
AA/EOE**

MYRIAD GENETICS, INC.

RESEARCH OPPORTUNITIES

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Myriad Genetics is an innovative genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in cancer and identifying genes involved in breast, ovarian, and brain cancer. We currently have major programs in asthma, cancer, central nervous system disorders, coronary heart disease, diabetes, obesity, and osteoporosis. Expansion of our ProNet™ gene identification and characterization effort provides a number of exciting opportunities for highly motivated individuals. These include positions for a number of scientists and research associates:

Scientists

Disease gene discovery: You will lead a group of investigators who are developing and implementing automated, high-throughput assays to understand gene function. The successful candidate will possess a Ph.D. or equivalent in molecular biology or genetics and 2-5 years of relevant post-doctoral experience. A strong background in genetics of model organisms such as yeast, *C. elegans* or *Drosophila* is desired; expertise in methods for detecting protein-protein interactions is desired. Excellent verbal and written communications skills are also essential.

Assay development: You will lead a team that is developing novel assays for drug discovery. The successful candidate will possess a Ph.D. and several years experience in developing and conducting assays for drug discovery. Excellent verbal and written communications skills are also essential.

Research Associates

Disease gene discovery: You will be part of a team that is developing and implementing high-throughput assays to understand gene function. Requires an M.S. or B.S. degree and a minimum of two years of experience in molecular biology. Familiarity with construction and screening of cDNA libraries, PCR, and other molecular biology techniques is desired.

Assay development: You will be part of a team that is developing and implementing novel assays for drug discovery. Requires an M.S. or B.S. degree and a minimum of two years of experience in molecular biology. Familiarity with molecular biology techniques and assay development is desired.

We offer an attractive compensation package and a stimulating, interactive research environment. Please mail or fax your letter of interest and include a complete resume and the names of three professional references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108. FAX: 801-584-3640. We are an equal opportunity employer. To learn more about Myriad Genetics, visit our web page at <http://www.myriad.com>.



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Roche Bioscience offers an exciting environment of innovation in human pharmaceutical research. Situated in one of California's most vital technological regions, our Palo Alto campus presents a unique setting that combines the synergy of science and business to produce research that delivers results. Join our research-based, product-focused enterprise as we move novel products through our pharmaceutical pipeline and create a future of industry firsts.

As an equal opportunity employer, we are committed to workforce diversity. We proudly offer ongoing career opportunities for Research Associates and Scientists in most areas of modern biology and chemistry.

Located in the San Francisco Bay Area—close to Stanford University and near scores of biotechnology companies—Roche Bioscience is proud to offer competitive salaries and a full benefits package, which includes incentive bonuses, relocation assistance, 401(k) and pension plans. Our progressive environment also features an on-site Fitness Center and a nearby Children's Day Care Center to help our employees maintain the best possible quality of life. If you would like to explore our opportunities firsthand, apply today by sending your resume to: Roche Bioscience, 3401 Hillview Avenue, A2-HR, Job Code: SCI0206-LY, Palo Alto, CA 94304. Fax 415/424-8159.

**See our career opportunities on the www at:
<http://www.roche.com/bioscience>.**

Laboratory Chief, NIAID, NIH

The National Institute of Allergy and Infectious Diseases (NIAID), NIH seeks an individual to head a Laboratory at the Rocky Mountain Laboratories (RML). This program is located in the Bitterroot Valley in Hamilton, Montana, and is a component of the NIAID Division of Intramural Research. This position requires an M.D., Ph.D., or equivalent with proven leadership abilities and a strong independent research program. Preference will be given to candidates with research interest in bacterial pathogenesis including emerging and reemerging infectious diseases and those whose program complements other research programs at the RML. The Laboratory Chief will have independent resources to conduct their research and will supervise other Principal Investigators with independent research programs. A Laboratory Chief in the Division of Intramural Research is equivalent to a Department Head in a University or Medical School. *Applicants must be U.S. citizens or permanent residents.* Salary depends on degree and qualifications and ranges up to \$148,400. Interested persons may contact **Dr. Karyl Barron, Deputy Director, DIR, NIAID at (301) 402-2208 or {kbarron@niaid.nih.gov}** for additional information about the position. A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests, and selected publications should be submitted by March 31, 1998, to: Ms. Melissa Keller, Office of Human Resources Management, NIAID, Building 31, Room 7A27, 31 Center Drive, MSC 2520, Bethesda, MD 20892-2520.

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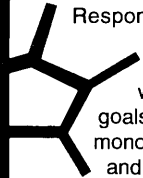
Cellular Immunology and Treatment of Childhood Cancers

The Pediatric Oncology Branch (POB) is searching for a tenure-track scientist to conduct a cutting-edge research program to develop novel approaches to the treatment of childhood cancer using cellular immunology approaches and an understanding of the unique cellular immune system in children. The successful candidate must have demonstrated expertise in cellular immunology and the ability to run an independent laboratory-based research program. In addition, the candidate must have an interest in developing a translational research program capable of developing new treatment protocols based upon leads generated in the laboratory. Resources include laboratory space, shared facilities, equipment, and supplies, and the support of two postdoctoral fellows and one technician. Candidates must have an M.D. degree with training and experience in Pediatric Hematology/Oncology and Cellular Immunology. The POB is committed to improving the outcome of children with cancer through translational research. Ongoing areas of research include sarcomas, lymphomas/leukemias, brain tumors, developmental therapeutics, and supportive care. The POB website can be accessed at <http://www.wicic.nci.nih.gov/pedpage/PedBrHomeR.html>. Interested candidates should send a cover letter, CV, statement of research interests, and three letters of reference to **Chairman, Search Committee, Pediatric Oncology Branch, NCI, Building 10, Room 13N240, 10 Center Drive MSC 1928, Bethesda, MD 20892-1928**. All application materials must be received by close of business on February 27, 1998. *NIH is an Equal Opportunity Employer.*

PROTEIN DESIGN LABS

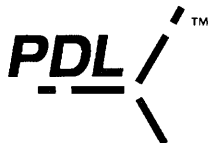
Protein Design Labs' interdisciplinary approach to drug discovery integrates computer-based design with molecular biology, immunology and protein chemistry. We have the following opportunity available:

PRECLINICAL SCIENTIST



Responsibilities include designing experimental protocols, conducting studies, and setting up/operating laboratory equipment. You will work independently to plan and achieve group goals and objectives for preclinical development of monoclonal antibodies, as well as investigate, create and develop new methods and technologies. This position requires a PhD in Life Sciences with 0-3 years directly related experience. Ideal candidates possess a background in Pharmacology, Immunobiology, or Cell Biology, as well as *in vivo* / *in vitro* pharmacology (industry and/or academics).

PDL's fast-paced, highly challenging environment offers exceptional professional opportunities, competitive salaries and a comprehensive benefits package. Later in 1998, we will be relocating to Fremont, CA. Visit our home page at www.pdl.com to learn about our company and other career opportunities at PDL. Please send your resume to: Protein Design Labs, Inc., Human Resources, Job Code 382, 2375 Garcia Ave., Mountain View, CA 94043, fax 650/962-0437. EOE.



Director Atmospheric Sciences & Climate

The National Research Council is seeking a Director for its Board on Atmospheric Sciences and Climate. Responsibilities include managing, developing, and supporting program activities under the board; exploring new project opportunities and developing proposals; maintaining active liaison with potential sponsors and relevant scientific and technical communities; coordinating activities with other NRC units and with appropriate units in the government and private sectors; supervising staff and managing financial and human resources to complete projects with limitations of time and budget.

Requires Ph.D. or equivalent, preferably in atmospheric sciences or a related discipline; and at least six years experience (federal, state, academic, or private sector) related to research, policy analysis and formation, and program management. Demonstrated knowledge of policy issues and federal agency programs in atmospheric and climate sciences; independent initiative; effective oral and writing communication skills.

Please send resume and salary requirements in confidence to: **NRC/CGER, HA 466 (RH), 2101 Constitution Avenue, NW, Washington, DC 20418.** EOE.

Visit us at www.nas.edu.

CONFERENCE

GORDON RESEARCH CONFERENCES

The 1998 Summer and International GRC Programs will appear in the February 27, 1998 Issue of *SCIENCE*

For further information visit

THE GRC WEB SITE

<http://www.grc.uri.edu>

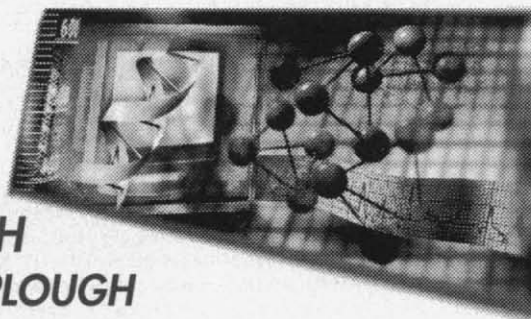
or request information by Fax at 401-783-7644

VISIT THE FRONTIERS OF SCIENCE

GO TO A GORDON CONFERENCE

Working on the molecular level to conquer,
treat, or prevent debilitating diseases.

INFECTIOUS DISEASES DRUG DISCOVERY RESEARCH AT SCHERING-PLOUGH



At the Schering-Plough Research Institute, scientists are discovering and developing novel therapeutics that challenge humankind's most debilitating diseases. To continue this important work, we seek talented scientists to join our multi-disciplinary group focused on molecular targets relevant to the discovery of novel agents for the treatment of bacterial, fungal and viral diseases.

ANTIBACTERIAL DRUG DISCOVERY

SENIOR/PRINCIPAL SCIENTIST

The successful candidate will have a PhD and 2-8 years of experience in bacterial physiology and genetics. A strong background in biochemistry or molecular biology is required to develop and implement secondary screens for the discovery of new antibiotics. Experience in high through-put screening is a plus. To be considered for this position, please reference Dept. DD98-29/KS-PC.

SENIOR/PRINCIPAL SCIENTIST

We are seeking a highly motivated, innovative professional with a PhD and 2-8 years of experience to determine the mechanism of action of novel antimicrobial agents. Excellent skills in biochemistry, bacterial physiology and molecular biology are essential. To be considered for this position, please reference Dept. DD98-50/KS-PC.

ASSISTANT SCIENTISTS/SCIENTISTS

We are seeking several scientists with a Bachelor's or Master's degree and 0-3 years of related experience. A strong background in Microbiology or experience as a medical technician is required for one position. Experience in biochemistry, microbial genetics or molecular biology is required for additional positions. To be considered for these positions, please reference Dept. DD98-27/KS-PC.

ANTIFUNGAL DRUG DISCOVERY

SENIOR/PRINCIPAL SCIENTIST

As a member of our antifungal team, you will be responsible for the development and implementation of secondary screens for new antifungal agents. The successful candidate will have a PhD and 2-8 years of experience in fungal molecular biology/biochemistry. Experience with *Candida* or *Aspergillus* is a plus. To be considered for this position, please reference Dept. DD98-26/KS-PC.

ASSISTANT SCIENTISTS/SCIENTISTS

Positions are available to develop and implement secondary antifungal assays. To qualify, you will need a Bachelor's or Master's degree and 0-3 years of experience in microbial or fungal genetics/molecular biology/biochemistry. Experience in assay development and high through-put screening is a plus. To be considered for these positions, please reference Dept. DD98-24/KS-PC.

ANTIBACTERIAL/ANTIFUNGAL DRUG EVALUATION

The scientists we seek will utilize bacteria and fungi to evaluate antibacterial and antifungal agents using various *in vitro* and *in vivo* procedures.

SENIOR/PRINCIPAL SCIENTIST

To qualify, you will need a PhD and experience in microbiology/immunology/pathogenesis or a related field. To be considered for this position, please reference Dept. DD98-22/DL-PC.

ASSISTANT SCIENTISTS/SCIENTISTS

We seek highly motivated, innovative professionals with an MS degree and 1-2 years of experience in microbiology/immunology/pathogenesis or a BS degree and 2-4 years of experience. Background must include experience in sterile technique, growing microorganisms, *in vitro* testing (e.g. MICs) and a range of *in vivo* experimental techniques. Knowledge of computer applications and molecular biology techniques is an asset. To be considered for these positions, please reference Dept. DD98-16/DL-PC.

ANTIVIRAL DRUG DISCOVERY

SENIOR/PRINCIPAL SCIENTIST

The successful candidate will have a PhD and 2-8 years of experience in virology/antiviral research. A strong background in biochemistry or molecular biology is required to develop and implement secondary screens for the discovery of new antivirals. Experience in hepatitis B or C viruses and/or high through-put screening is a plus. To be considered for this position, please reference Dept. DD71-36/JL-PC.

ASSISTANT SCIENTISTS/SCIENTISTS

We are seeking several scientists with a Bachelor's or Master's degree and 0-5 years of related experience. Positions require a strong background in virology or experience as a medical technologist. To be considered for these positions, please reference Dept. DD71-38/JL-PC.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send resume with cover letter stating your research interests, three references and the Dept. Code for your position of interest, to: Human Resources-PC, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



**Schering-Plough
Research Institute**

Using Science for Human Advantage

PHYSICIST
ZP-1310-IV (\$55,969 – \$85,978)

The NIST Center for Neutron Research, Materials Science and Engineering Laboratory, National Institute of Standards and Technology (NIST), Department of Commerce in Gaithersburg, Maryland is seeking a Physicist.

The NIST Center for Neutron Research, which operates the National Institute of Standards & Technology's 20 MW Research Reactor and associated experimental facilities, is seeking a theoretical materials physicist with an established record of significant research to fill a career-conditional senior-level position at the ZP-1310-IV (equivalent to the GS-13/14) level. Applicants must have experience in the theory of the structure, atomic and molecular dynamics, and magnetism of materials; the theory and experimental techniques of neutron scattering; and the solid state synthesis of novel materials. The successful candidate will have an exemplary record of research productivity in these areas as demonstrated by well-cited publications in leading journals, invited lectures, etc. In addition to establishing and leading his/her own research program, the successful candidate will be expected to participate in the development of software for analyzing quasielastic and inelastic neutron scattering data. Candidates must possess demonstrated knowledge and ability in the following areas: (1) Theory of crystal structure, lattice dynamics, and magnetic materials, *ab initio* calculations, density functional theory, and the Hubbard model. (2) Theory and practice of neutron diffraction, inelastic neutron scattering, and quasielastic neutron scattering. (3) Solid state synthesis of novel materials including intercalation compounds, ceramics, and fullerides.

Salary will be commensurate with qualifications and experience as specifically outlined in the application.

For specific requirements, interested applicants must obtain vacancy Announcement NIST-97-2787/RP via the NIST Vacancy Hotline (301) 926-4851, NIST Home page (<http://www.nist.gov>), or USOPM Federal Job Opportunities Board (<http://www.usajobs.opm.gov>).

Please send résumé or Personal Qualifications Statement (SF 171) and transcripts or OPM 1170/17 to:
NIST/97-2787/RP

**Administration Building, Room A123
Office of Human Resources Management
National Institute of Standards and Technology
Gaithersburg, MD 20899**

Department of Commerce/NTIS is an Equal Opportunity Employment/Affirmative Action Employer.

U.S. citizenship required.

Closing Date: 1 Month from Posting Date.

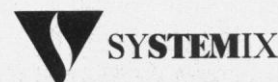
**POSTDOCTORAL
RESEARCHERS**

SyStemix, a Novartis company, is developing cell and cell-based gene therapies for the treatment of cancer, genetic disorders and AIDS, focusing on the transplantation of hematopoietic stem cells. We are currently seeking Postdoctoral Researchers with cellular or molecular biology expertise for two-year appointments in the following areas:

**Hematology
Immunology
Transplantation Biology**

SyStemix encourages an environment for postdoctoral researchers to develop their careers through active participation in our scientific research, publications, relevant meetings and conferences. All positions include paid interview and relocation expenses, as well as health/life insurance, paid vacation time and holidays. All positions require a recent PhD. Salary is \$37K.

Applicants should submit a current CV or resume with a brief statement of research interests, as well as three letters of recommendation, to: SyStemix, Inc., Human Resources, Dept. SCI26, 3155 Porter Drive, Palo Alto, CA 94304 or email to hr@stem.com. FAX (650) 813-4121. <http://www.stem.com>. EOE.



Vulnerability and Lethality Test and Evaluation

The Institute for Defense Analyses (IDA) is a not-for-profit Federally Funded Research and Development Center serving the Office of the Secretary of Defense, the Joint Chiefs of Staff, Unified Commands and Defense Agencies in addressing important national security issues, particularly those requiring scientific and technical expertise. IDA's overall mission is to bring analytic objectivity and understanding to complex issues of national security.

Challenging career opportunities now exist at IDA in analyzing and assessing the application of vulnerability and lethality test and evaluation to defense problems. Current areas of investigation include independent assessments of the vulnerability of US armor systems, aircraft and ships and/or the lethality of US conventional weapons systems. The position requires the ability to write and speak effectively, think analytically and work independently.

Openings exist for analysts with a PhD in a mathematical, technical or scientific discipline that can be applied to the test and evaluation of weapons systems, or a master's degree with substantial experience.

IDA offers a competitive salary, an enviable benefits package and a superior professional environment in a park-like setting. Applicants selected will be subject to a security investigation and must meet eligibility requirements for access to classified information. US citizenship is required. Qualified applicants may fax their resumes to: (703) 845-6996; e-mail: JOB6@careers.ida.org; or forward by mail to: Institute for Defense Analyses, Employment Office - JOB6, 1801 N. Beauregard Street, Alexandria, VA 22311.

IDA is an EOE/AA employer. See our Web site at: <http://www.ida.org> for more information.



FACULTY POSITIONS Department of Molecular Biology

Tenure track and tenured positions are available at the Assistant Professor and Associate Professor levels in the Department of Molecular Biology, University of Medicine and Dentistry of New Jersey-School of Osteopathic Medicine. Applications are invited from candidates utilizing modern technologies to study issues applicable to the human condition.

- The successful candidate will be expected to develop an independent, extramurally funded research program and participate in the teaching of Osteopathic Medical students and Graduate students.
- Exceptional salary, start-up and support packages are available to the successful candidates.

Interested individuals should send their curriculum vitae, a statement of research interests, and the names of three individuals willing to write a letter of reference to: **Sal J. Caradonna, Ph.D., Chair, Department of Molecular Biology, UMDNJ-School of Osteopathic Medicine, Two Medical Center Drive, Stratford, New Jersey 08084.**

UMDNJ is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey. Web address: www3.umdj.edu/mobile/molebio.html



Techniques in Integrative Cardiovascular Physiology and Functional Genomics

Offered By: The American Physiological Society
and

The Department of Physiology and the
Cardiovascular Research Center,
Medical College of Wisconsin

The workshop is designed to introduce molecular biologists and geneticists to the principles and techniques used in studies of integrative cardiovascular physiology and functional genomics. The content is designed to appeal to the geneticist or molecular biologist who is interested in phenotyping animals based on the physiological consequences of gene manipulation (transgenic or cogenic animal) or in understanding the consequences of gene transfection.

The workshop will be divided into two one-week blocks. The first week will consist of lectures and laboratory demonstrations, concentrating on practical aspects of hemodynamic measurements in mice, rats, and rabbits. The second week will be spent on a specific project in one of the following areas or learning a specific technique:

- Mouse Surgical Techniques
- In Situ Microcirculation
- Central Neural Control
- Local Gene Transfer
- Isolated Microvessels
- Cellular Electrophysiology
- Restenosis and Angioplasty
- Indicator Dilution Flowmetry
- Laser Doppler Flowmetry
- Chronic Instrumentation
- Rat Surgical Techniques
- Isolated Arteries

The workshop will be held at the Medical College of Wisconsin, Milwaukee, August 3-14. The tuition is \$2,000, and low cost housing can be arranged at Mount Mary College for \$30-45/day, depending on the type of room and board.

FOR INFORMATION: William M. Chilian, Professor, Department of Physiology, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226-0509.
TEL: 414-456-4975 • FAX: 414-456-6546
E-MAIL: chilian@mcw.edu

POST-DOCTORAL/ Angiogenesis

science &
technology

Brings Us Together

At ImClone Systems Incorporated you can build a rewarding career in the fight against cancer and cancer related disorders. As a leading biopharmaceutical company we bring science and technology together with state-of-the-art systems and the most current technology. Our researchers emphasize innovation, multi-disciplinary problem solving and teamwork.

A postdoctoral position is available to study novel molecular mechanisms of blood vessel formation, particularly the role played by VE-cadherin in normal and pathogenic capillary tube formation. These studies will include the analysis of VE-cadherin homophilic binding, development of binding antagonists, and testing of antagonists *in vitro* and animal models. Recent Ph.D. graduates with a strong background in molecular biology and cell biology are encouraged to apply. Experience in monoclonal antibody development, assay development and animal models would be a plus.

ImClone Systems offers excellent salaries with outstanding benefits including a tuition reimbursement program. For confidential consideration, please send or fax (212-645-2054) your CV and salary requirements, indicating Dept code to: (Dept 110DHPD)



Human Resources Manager
**ImClone Systems
Incorporated**
180 Varick Street, 7th Floor
New York, NY 10014

We are an equal opportunity employer m/f/d/v.



INGENUITY WHERE IT MATTERS MOST.



When it comes to improving people's lives, there are no shortcuts. That's why at Johnson & Johnson we give it our all. 100% of the time. It's a business philosophy that's led to our being awarded the National Medal of Technology. And one that's helped us set new standards of excellence for our industry and our people.



Johnson & Johnson
CONSUMER PRODUCTS, INC.

Scientist/Senior Scientist Exploratory Technology Raritan, NJ

We are seeking a scientist for an established multi-disciplinary team working toward the development of new screening technologies. Your responsibilities will encompass the conception/identification of promising technology, through feasibility testing, to the eventual transfer into our Drug Discovery and High-throughput Screening Teams. You will be responsible for establishing and maintaining collaborations with outside scientists, as well as with members of the J&J Family of Companies.

We require a Ph.D. (or equivalent) in Biochemistry, Biophysics, Chemistry or other appropriate fields, as well as a minimum of two years' postdoctoral training. Experience in Biochemistry, Analytical Chemistry, micro-fabrication, non-radiometric detection, and/or CE/MS/NMR is desirable. The successful candidate will have a proven record (publications) of accomplishment in several of these areas. Research projects will be designed to be appropriate for the background of the chosen candidate.
Dept. 1858.

To apply, please forward a scannable resume, noting the appropriate department code and salary requirement, to: **Dept. # of position of interest, Johnson & Johnson Recruiting Services, PO Box 16597, New Brunswick, NJ 08906-6597.** An equal opportunity employer, m/f/d/v, committed to diversity in the workplace.

Visit us on-line for more information or to submit your resume electronically.

www.jnj.com

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Senior Research Scientist Skillman, NJ

You will be responsible for developing models and methods for evaluation of hair and skin care products, creating new and differentiated product claims, assisting and training others in new test methods and methodologies, and evaluating prototype formulations.

To qualify, you'll need 2-5 years of industry experience in the area of hair or skin care, an MS/Ph.D. or equivalent in Biology/Life Sciences, methods development expertise, computer skills, and presentation and writing abilities. Familiarity with Instron instruments, Fourier Transform, Infrared, Optical SEM or Atomic Force Microscopy, and/or Optical Spectroscopy instrumentation capabilities are desirable. **Dept. 1861.**

Ranked consistently by *FORTUNE* as one of "America's Most Admired Companies" and by *Working Mother* as one of the "100 Best Companies for Working Mothers," Johnson & Johnson offers competitive salaries and a full array of benefits, including medical/dental, 401(k) and pension plans, and a comprehensive wellness program.

POSITIONS OPEN

PROFESSOR AND DIRECTOR SCHOOL OF FORESTRY, WILDLIFE, AND FISHERIES

Applications and nominations are invited for the position of Professor and Director of the School of Forestry, Wildlife, and Fisheries in the Louisiana State University College of Agriculture and the Louisiana Agricultural Experiment Station. The successful candidate will have leadership and administrative responsibility for (1) basic and applied research programs in renewable resource management, (2) teaching and curricula for two undergraduate and five graduate degree programs, (3) recruitment and professional development of faculty, staff, and students, (4) budget preparation and management, including McIntire-Stennis funds, and (5) School representation to University administration, other University units, and public and private agencies and clientele groups at local, regional, national, and international levels. The School currently has 24 professorial-level scientists engaged in research and teaching programs in forestry, forest products, wildlife, and fisheries.

Applicants should have a Ph.D. in forestry, wildlife, fisheries, or a closely related field, with demonstrated excellence in research and teaching, and qualifications necessary to hold a tenured academic rank of Professor in the School. Administrative experience and evidence of strong leadership, as well as personnel and financial management skills in a multidisciplinary unit are highly desired, as is proven leadership with private and other public stakeholders. Salary commensurate with qualifications and experience.

Candidates should submit a letter addressing the applicant's interest, qualifications, and administrative philosophy, a résumé, and names, addresses, and telephone numbers of five references, at least one of which represents a stakeholder organization outside academia. Applications should be sent by May 1, 1998, to: Dr. William H. Brown, Associate Director, Louisiana Agricultural Experiment Station, P.O. Box 25055, Baton Rouge, LA 70894-5055. Telephone: 504-388-4182; FAX: 504-388-6032; e-mail: bbrown@agctr.lsu.edu. Louisiana State University and the LSU Agricultural Center are Equal Opportunity/Affirmative Action Employers.

ENDOWED CHAIR IN NUTRITION SCIENCE

Nominations and applications are sought for a distinguished Scientist to be appointed to the Dorothy Focher Huck Chair in Nutrition. We wish to attract an internationally recognized scholar in the field of nutrition. Nominees and applicants must have an earned doctorate in nutrition or a closely related field and an active research program in molecular or cell biology, metabolism, immunology, biochemistry, or neurobiology with a nutrition emphasis.

The successful candidate for this senior faculty, tenured position is expected to have an outstanding scholarly record, a distinguished record of research, teaching, and extramural funding, and evidence of outstanding leadership abilities. An attractive and competitive salary and start-up package is available.

Applications accompanied by a curriculum vitae, a one-page statement of research interests, and the names of three professional references should be forwarded to: Dr. John L. Beard, Chair of Search Committee, Box 1001, Nutrition Department, The Pennsylvania State University, S-126 Henderson Building South, University Park, PA 16802. Screening of applicants will begin in mid-March and will continue until the position is filled. More information can be obtained from Dr. John Beard at the above address or at Telephone: 814-863-2917; FAX: 814-863-6103; e-mail: its@psu.edu.

The Pennsylvania State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

DEAN, COLLEGE OF THE SCIENCES (COTS), Central Washington University (CWU), position available July 1, 1998. COTS consists of 12 departments in social, behavioral, natural sciences and mathematics, and one interdisciplinary program. CWU is a comprehensive, state-assisted university of 7,500 FTE. Salary minimum: \$82,116. Screening begins March 2, 1998, and continues until position is filled. For application information contact: Duncan Perry, College of the Sciences Search Committee Chair, 400 East 8th Avenue, Central Washington University, Ellensburg, WA 98926-7510. Telephone: 509-963-3101; FAX: 509-963-1799; e-mail: cotsdean@cwu.edu; website: <http://www.cwu.edu/>. Affirmative Action/Equal Employment Opportunity/Title IX Institution.

POSITIONS OPEN

THE UNIVERSITY OF SOUTHERN CALIFORNIA Center for Computational and Experimental Genomics

University of Southern California (USC) announces three new **FACULTY POSITIONS** in the newly formed Center for Computational and Experimental Genomics. The Center focuses on the use of genomic data and associated technologies in the development of novel experimental and computational approaches to important biological problems.

The positions are to be affiliated with the Departments of Biological Sciences and/or the Computational Mathematics and Statistics section of the Mathematics Department. Teaching in the appropriate departments is expected. The level of the three positions is open, to be determined by the qualifications of the successful applicants. The specific areas of research are open, but should be within the broad areas of genetic diversity, functional genomics, new genome technologies, and computational and statistical analysis.

Applicants should send a résumé, a cover letter describing teaching and research interests, and the names, addresses, telephone/FAX numbers, and e-mail addresses of at least three references to: Search Committee, Center for Computational and Experimental Genomics, University of Southern California, Los Angeles, CA 90089-1340. FAX: 213-740-8631.

Applications will be considered beginning February 1, 1998, and will be accepted until the positions are filled. For more information see website: <http://www-hto.usc.edu>. USC is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN CELLULAR NEUROBIOLOGY OREGON HEALTH SCIENCES UNIVERSITY (OHSU)

As part of an expansion in its basic research program, the Center for Research on Occupational and Environmental Toxicology (CROET) at OHSU invites applications for faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. We seek individuals who use developmental, genetic, molecular, or cell biological approaches to address fundamental problems in neuroscience. The ability to develop a vigorous, independent research program is of paramount importance, as is a commitment to graduate and postdoctoral training. CROET, whose laboratories occupy three floors in the new Basic Science Building, is a neuroscience-focused institute dedicated to promoting the health of Oregon's work force. Its activities extend from laboratory and clinical research to education and outreach. The neuroscience community at OHSU includes nearly 100 faculty members representing great depth and diversity in molecular, cellular, systems, developmental, and behavioral research. Applicants should submit a curriculum vitae and statement of research plans and have three letters of reference sent to: Gary Banker, Director of the Program in Cellular Neurobiology, CROET/L606, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-4278.

ECOLOGY/EVOLUTION AND PHYSIOLOGY POSITIONS BUCKNELL UNIVERSITY

Applications are invited for two temporary positions in the Biology Department: a one-year **VISITING** position in ecology/evolution, and a two-year **VISITING** position in physiology. Both begin August, 1998. Ph.D. required or pending. The ecology position will involve teaching introductory courses and the possibility of an advanced course. The Physiologist will teach human physiology, endocrinology, and an advanced course in area of expertise. Curriculum vitae, evidence of teaching effectiveness, a cover letter offering teaching philosophy, and three letters of recommendation should be submitted to:

Dr. Wayne F. McDiffett, Chair
Department of Biology
Bucknell University
Lewisburg, PA 17837
E-mail: mcdiffett@bucknell.edu
Telephone: 717-524-1124
FAX: 717-524-3537

Review of applications begins on March 10, 1998. Bucknell University encourages applications from women and members of minority groups. Equal Employment Opportunity/Affirmative Action.

POSITIONS OPEN

FACULTY POSITION IN HEMATOPOIESIS/ LYMPHOCYTE DEVELOPMENT

The Department of Microbiology and Immunology in conjunction with the Division of Hematology and Oncology and the Sylvester Cancer Center at the University of Miami School of Medicine invite applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level for investigators with research interests in the development of hematopoietic stem cells. The preferred areas of investigation are either at the level of primitive stem cells or the development of lymphoid (B, T, NK) cells. Candidates who are also interested in oncogenesis and stem cell manipulation are encouraged to apply. The chief criteria for candidates are proven excellence in research and the potential to develop an externally funded research program.

All applicants who wish to be considered for the position at the level of Associate Professor should have an established, funded research program.

Interested applicants should send a current curriculum vitae, a statement describing research achievements and future research plans, and the names and addresses of three references to:

Dr. Thomas Malek
Chairman, Hematopoiesis Search Committee
Department of Microbiology and Immunology
University of Miami School of Medicine
P.O. Box 016960 (R-138)
Miami, FL 33101

The University of Miami is an Equal Opportunity/Affirmative Action Employer.

CHAIR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR GENETICS University of Alabama at Birmingham

The University of Alabama Schools of Medicine and Dentistry are seeking applications and nominations for the position of Professor and Chair of the Department of Biochemistry and Molecular Genetics. The Lee Chair of Biochemistry, an endowed research chair, is also available to the successful candidate. The person filling this position will assume the leadership of an established faculty, and will have an opportunity to expand significantly the department in new directions.

The applicant must have a Ph.D., M.D., or equivalent degree, be internationally recognized for research, have a commitment to graduate, medical, and dental education, and have a record of leadership in administrative activities. The successful candidate is expected to be an established scientist with a strong ongoing, independent, and well-funded research program.

The Search Committee is headed by Dale Benos, Ph.D., Chair of the Department of Physiology and Biophysics. Interested applicants should submit a curriculum vitae including the names of three references to:

Amy Thompson, Director
Administrative Services
University of Alabama School of Medicine
Medical Dean's Office—MEB 310
University Station
Birmingham, AL 35294-3293

The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MEDICINAL CHEMISTRY/BIOCHEMISTRY

Department of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions, Wayne State University. Candidates are sought for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position in biochemical or molecular biological aspects of drug design. Outstanding applicants from all areas of medicinal chemistry, including theoretical and synthetic medicinal chemistry, will be considered. Ph.D. in pharmaceutical sciences, chemistry, biochemistry, or related area and postdoctoral experience required. Additional information at: website: <http://wizd.pharm.wayne.edu/psc.html>. Search will remain open until a qualified candidate is identified. Mail curriculum vitae with the names and complete contact information for three references to: George B. Corcoran, Ph.D., Chair, Attn: Medicinal Chemistry Corcoran, Department of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions, Wayne State University, Detroit, MI 48202-3489. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—People working together to provide quality service.

The B-cell Development section of the Laboratory of Immunology at the Gerontology Research Center (NIA) is currently accepting applications for an Intramural Research and Training Award (IRTA). Candidates should have a background in molecular immunology with some training in basic recombinant DNA technology (e.g., Southern and northern blotting, polymerase chain reaction (PCR), reverse transcription-PCR, cloning, sequencing, western blotting, etc.). The B-cell Development section is currently investigating mechanisms defining B-cell repertoire, particularly molecular determinants of positive and negative selection using transgenic mice as a model system. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. U.S. citizenship or permanent residency is required.

Interested individuals should submit:

- 1.) A letter detailing their career goals and interests; 2.) a current CV; 3.) and official copy of their undergraduate and graduate school transcripts; and 4.) Three letters of reference to:

James Kenny, Ph.D., 4940 Eastern Avenue, GRC/NIA, Baltimore, MD 21224; kennyj@grc.nia.nih.gov



SCIENTIST

ChromaVision Medical Systems, a dynamic young company focusing on the development of advanced automated microscopy systems for diagnostic applications, seeks a highly motivated individual with responsibility for developing cutting-edge microscopy-based assays at the rank of Scientist. The successful candidate will have an outstanding track record in the creative application of immunocytochemistry, *in situ* hybridization and other cell/tissue-based methodology in the clinical research or clinical diagnostic laboratory setting. Preference will be given for an individual who has completed advanced training in cell/molecular biology, immunology, or pathology (or equivalent accomplishment based on previous employment record).

Share our vision and enjoy a competitive salary and excellent benefits in an environment conducive to your success. For immediate consideration, please forward résumé and salary requirements to:

**Attn: Director, Human Resources
33171 Paseo Cerveza
San Juan Capistrano, CA 92675.
FAX: (714) 443-3372, E-MAIL:
lotworth@chromavision.com**

EOE M/F/D/V

RESEARCH



GENETIC THERAPY, INC.

CHALLENGING OPPORTUNITIES

Genetic Therapy, Inc. is a leader in the research and development of human gene therapy products, for the treatment of genetic and acquired diseases. Founded in 1986, GTI and its collaborators, represent one of the largest groups of scientists dedicated to research and development in the field. The product development programs of the company include: cancer, hemophilia and cardiovascular disease.

POST-DOCTORAL POSITIONS

All require a Ph.D. in a scientific discipline; or equivalent. We are seeking candidates to fill the following two year Post-doctoral positions:

Cardiovascular Disease Group: Investigate novel gene therapy approaches for the treatment of cardiovascular disorders through the delivery of therapeutic genes. A background in cardiovascular biology, endothelial and smooth muscle cell biology is desired. (Job Code: T69-070-7)

Tumor Biology Unit: This project will focus on allogenic bone marrow transplantation/GVHD. Will be responsible for developing and implementing assays of lymphocyte function. Must have a cellular immunology background and experience with animal modeling. (Job Code: T89-050-7)

Retroviral Vectors Unit: Study interaction of retroviruses with human cells, with the goal of developing novel retroviral vectors for gene therapy. Should have a strong background in molecular biology and cell biology. Immunology and FACS expertise is highly desirable. (Job Code: T90-012-7)

Pulmonary Disease Unit: This unit is developing gene therapies for lung diseases. Will have experience in molecular biology and will clone and analyze the molecular regulation of genes relevant to lung disease. Must have a working knowledge of cDNA and genomic cloning techniques, site directed mutagenesis and be well versed in methods for the analysis of regulatory sequences contained within promoters and introns. (Job Code: T91-013-7)

DNA Viral Vectors Unit: Initiate studies investigating novel gene therapy-based strategies for the treatment of diabetes. Molecular biology experience and a background in diabetes or animal modeling is desired. (Job Code: T93-011-7)

Synthetic Vectors Unit: Study the mechanism of DNA delivery using synthetic vector systems. Will develop and setup assays to study membrane fusion and DNA trafficking in living cells. Experience in the area of membrane biophysics and fluorescence imaging techniques is desirable. (Job Code: T94-072-7)

SENIOR SCIENTIST III

Candidate must have experience with mammalian or primate retroviruses. Job will entail developing retroviral vectors to treat a variety of diseases including: cancer, cardiovascular and transplantation. Should have strong background in virology, molecular biology and cell biology. *In-vivo* modeling experience is also desirable. Candidate will have a Ph.D. in a scientific discipline and six to eight years' of experience; or equivalent. (Job Code: 236-012-7)

LAB HEAD I

The successful candidate will be responsible for establishing vascular *in-vivo* models at GTI including the balloon induced injury models. Surgical techniques for *in-vivo* models are required. Must have Ph.D. in a scientific discipline, supervisory skills and four to six years' of experience in managing a lab; or equivalent. (Job Code: 248-070-7)

SENIOR SCIENTIST I

The successful candidate will be involved in the development of adenoviral gene delivery systems for the treatment of cardiovascular disorders. A background in cardiovascular biology, endothelial and smooth muscle cell biology is required. Must have a Ph.D. in a scientific discipline and two to four years' of research experience in cardiovascular biology; or equivalent. (Job Code: 216-070-7)

GTI, a Novartis company, offers a stimulating and challenging environment in a rapidly growing company, with competitive salaries and benefits. Please specify job code when applying.

Fax or send resume to:

**Genetic Therapy, Inc.
938 Clopper Road
Gaithersburg, MD 20878
Fax: (301) 208-2481**

E-mail: gti.jobs@pharma.novartis.com



EOE

POSITIONS OPEN

TENURE-TRACK POSITIONS WAYNE STATE UNIVERSITY

Center for Molecular Medicine and Genetics

Wayne State University has allocated laboratory space, salary support, and generous start-up funds for the recruitment of outstanding individuals with an interest in prostate cancer research. This program is designed to build a core of individuals at Wayne State University interested in basic and translational aspects of research on prostate cancer. The Center for Molecular Medicine and Genetics, directed by **Professor George Grunberger, M.D., FACP**, and the Prostate Initiative, directed by **Professor Kenneth V. Honn, Ph.D.**, invites applications for two tenure-track **ASSISTANT/ASSOCIATE PROFESSORSHIPS** with an anticipated starting date of September 1, 1998. Applications are solicited from individuals with strong doctoral and postdoctoral training in molecular and cellular biology. Successful applicants should possess an M.D.-Ph.D. or Ph.D. The areas of research interest for successful applicants should include one or a combination of the following research directions: angiogenesis, cell cycle regulation, apoptosis or cell matrix interactions, and integrins. Preference will be given to applicants with demonstrated outstanding track records, a demonstrated interest in one of the above-mentioned areas of research, and in particular an emphasis on the study of prostate cancer. Applicants who do not have a demonstrated published track record in prostate cancer research should describe in detail, in their statement of research interest, how their research in one of the above areas could be applied to the problem of prostate cancer progression and metastasis. Applications should contain a full curriculum vitae, a statement of research interest and objectives, and three letters of recommendation, and should be sent to: **Dr. Kenneth V. Honn, Wayne State University, Department of Radiation Oncology, Cancer Biology Division, 431 Chemistry Building, Detroit, MI 48202. Telephone: 313-577-1018; FAX: 313-577-0798.**

Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smoke-free. Wayne State University—people working together to provide quality service.

MOLECULAR BIOLOGY/GENETICS BAYLOR COLLEGE OF MEDICINE

The Bobby R. Alford Department of Otorhinolaryngology and Communicative Sciences invites applications for a **TENURE-TRACK POSITION**. Applicants for this position should have experience with molecular biology/genetics. Preference will be given to applicants with experience in sensory neuroscience, especially research that complements the existing departmental strength in hair cell and cochlear biophysics. The appointment will be made at a level commensurate with the applicant's experience. Less experienced applicants are competitive if they have demonstrated the potential for developing a funded independent research program. More senior applicants must have an established record of nationally recognized research. Interested applicants should send a curriculum vitae, a statement of research goals, reprints of selected published research articles, and the names of at least three references to: **W. E. Brownell, Chair, Search Committee, Department of Otorhinolaryngology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. E-mail: ngavia@bcm.tmc.edu.** For information about the Department, see website: <http://www.bcm.tmc.edu/oto/>. Applications from minorities and women are encouraged. An Equal Opportunity/Affirmative Action Employer.

PROFESSOR OF FOOD SCIENCE

The Department of Food Science at Rutgers University invites applications from distinguished scientists to fill an excellence line of Professor or above. This position will complement existing teaching and research programs in food chemistry, engineering, microbiology, and biotechnology. Candidates are expected to have a research program of international prominence with continuing external support. Please submit curriculum vitae and statements of research goals and teaching interests by 1 April to: **Prof. Bruce P. Wasserman, Department of Food Science, Rutgers University, 65 Dudley Road, New Brunswick, NJ 08901-8520. Telephone: 732-932-9611, ext. 220; e-mail: bruce@aesop.rutgers.edu; website: http://foodsci.rutgers.edu.** Rutgers University is an Equal Opportunity/Affirmative Action Employer and welcomes applications from women and ethnic minorities.

POSITIONS OPEN



AMERICAN UNIVERSITY ANATOMY/PHYSIOLOGY FACULTY

The Department of Biology invites applications for a tenure-track position at the rank of **ASSISTANT PROFESSOR** to begin in the fall 1998 semester. We are searching for a broadly trained Vertebrate Anatomist/Physiologist with a promising research agenda. A Ph.D., postdoctoral experience, and evidence of strong teaching skills are required. The successful applicant will establish and maintain an active research program involving undergraduate and Master's-level graduate students and provide departmental and university service. Major teaching responsibilities will be courses in the premedical program. Review of applications will begin on February 15, 1998, and continue until the position is filled. Send curriculum vitae, statements of teaching philosophy and research interests, and arrange to have three letters sent directly from the referees, to: **Dr. Richard H. Fox, Chair, Department of Biology, American University, Washington, DC 20016-8007.** Position is subject to budgetary approval. *American University is an Affirmative Action/Equal Opportunity Employer, committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply.*

Ecology/conservation/aquaculture genetics of fish. The Department of Zoology at Southern Illinois University, Carbondale (SIUC), invites applications for an **ASSISTANT PROFESSOR**, 12-month, tenure-track faculty position with 75 percent research in the Cooperative Fisheries Research Laboratory and Illinois Aquaculture Research and Demonstration Center, and 25 percent teaching. Applicants should have a research emphasis on ecological and/or conservation genetic problems as related to fish management and/or aquaculture. Preference will be given to individuals with postdoctoral experience who are competent in a range of analytical techniques, such as allozymes, mt DNA, microsatellite DNA, DNA sequencing, ploidy manipulation, or other relevant approaches. The successful candidate will be expected to enhance research and graduate program capabilities by developing an externally funded program and through collaboration with faculty and staff. The teaching assignment will involve a graduate laboratory course in molecular techniques in population genetics, and a fish genetics course alternating with a graduate specialty course to be developed. Minimum qualifications: (1) Ph.D. in genetics, biology, zoology, or related area, and demonstrated expertise in area of specialization, and membership in the American Fisheries Society; (2) demonstrated grant success or evidence of strong potential to obtain external funding; (3) a record of publication and scholarly activities commensurate with experience. To apply, send a cover letter highlighting qualifications for the position, a detailed statement of research interests and plans, and a statement of teaching interests and capabilities; a curriculum vitae; copies of published papers; four letters of recommendation that include evaluation of applicant's ability and potential to fill the position as described. Closing date for applications is 7 March 1998, or until filled. Starting date is August 15th, 1998. Mail applications to: **Dr. Roy C. Heidinger, Director, Fisheries Research Laboratory, Southern Illinois University, Carbondale, IL 62901.** We especially encourage women and minority candidates to apply. *SIUC is an Equal Opportunity/Affirmative Action Employer.*

YALE UNIVERSITY FACULTY POSITION IN THEORETICAL PHYSICS

The Physics Department of Yale University expects to have an opening at the **ASSISTANT PROFESSOR** level beginning in the fall of 1998 in the general area of theoretical high-energy physics. The Yale high energy theory group conducts research on problems in electroweak symmetry breaking, precision tests of the standard model, neutrino physics and astrophysics, conformal field theory, string theory, and quantum gravity. Please send a résumé and arrange for at least three letters of reference to be sent before March 6, 1998, to: **Professor Gregory Moore, Chair, Search Committee, Department of Physics, Yale University, Box 208120, New Haven, CT 06520-8120.** Yale University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minority group members.

POSITIONS OPEN

CARLETON UNIVERSITY DEPARTMENT OF BIOLOGY

Applications are invited for the following two positions: A tenure-track position at the rank of **ASSISTANT PROFESSOR** in terrestrial ecology effective July 1, 1998. An interest in plant ecology would be an asset. Candidates should have a strong commitment to teaching at the undergraduate and graduate levels. Submit a curriculum vitae, a statement of research interests and teaching philosophy, and the names of three referees by March 15, 1998.

An **INSTRUCTOR** position in plant or animal biology, effective July 1, 1998. The Instructor's principle responsibility will be to lecture in undergraduate physiology and form and function courses. Opportunities exist for supervision of Honours research thesis students. Candidates should possess a Ph.D. in a relevant field, and an interest in designing multimedia or computer-based instruction material. Initially, this position will be offered for a three-year term. Submit a curriculum vitae, a statement of teaching philosophy and interests, a sample course syllabus, teaching evaluations (if available), and the names of three referees by March 15, 1998. The Department has close links in research and teaching at the graduate level with the Department of Biology, University of Ottawa. The positions are subject to budgetary approval. For additional information regarding the Department see website: <http://www.carleton.ca/~jhelava/biology/biology.html>. Applications should be addressed to: **Dr. I. B. Lambert, Chair, Department of Biology, Carleton University, 1125 Colonel By Drive, Ottawa, Ontario K1S 5B6 Canada. E-mail: iainlambert@pigeon.carleton.ca.** In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Carleton University is committed to Equality of Employment for women, aboriginal peoples, visible minorities, and persons with disability. Persons from these groups are encouraged to apply.

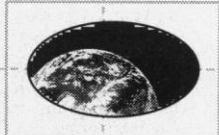
CHIEF, DIVISION OF ENDOCRINOLOGY, METABOLISM, AND CLINICAL NUTRITION. The University of California, Davis, School of Medicine is recruiting a full-time tenure-track faculty member at the Associate or Professor level. The Divisions of Endocrinology and Metabolism and Clinical Nutrition have been combined to form a new Division. This program has a strong basic science commitment on campus including collaborations with the Department of Nutrition, extensive Clinical Nutrition Research Unit support, a large clinical population for research, and ties with the Western Center of Nutrition, which will be located in Davis. The institution has committed financial resources and additional FTE for this position. The position requires demonstrated leadership abilities, national or international stature in subspecialty, strong clinical skills, excellence in teaching, and an ability to integrate the program with campus resources. An established research interest in clinical and basic metabolism and nutrition is required. Candidates must be Board-certified in internal medicine and the subspecialty of endocrinology and/or clinical nutrition and be eligible for licensure in the State of California. Please forward curriculum vitae to: **Timothy Albertson, M.D., Ph.D., c/o Renee Korte, Department of Internal Medicine, University of California, Davis, P.O. Box 179002, Sacramento, CA 95817-9002.**

This position is open until filled but no later than August 31, 1998. The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOLOGY

Assistant Professor of biology/tenure-track faculty position at the University of Cincinnati, Raymond Walters College beginning September 1998. Teaching responsibilities include introductory pharmacology, regulatory and compliance issues, and possibly other courses of interest to the candidate. The successful candidate will be expected to develop an undergraduate certificate program in clinical research. Undergraduate teaching experience is desirable along with a strong commitment to teaching. The minimum requirement for this position is a Master's degree. Application should include a cover letter, curriculum vitae, statement of teaching philosophy, and three letters of recommendation. Review of applications will begin March 30, 1998, and continue until the position is filled. Raymond Walters College is a two-year, open access branch campus of the University of Cincinnati. Send application materials to: **Dr. Frank Varga, Chair, Biology Department, Raymond Walters College, 9555 Plainfield Road, Cincinnati, OH 45236-1007.**

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And we're even more focused on the future. That's why our entire organization, from agricultural biotechnology to pharmaceuticals to food ingredients, is dedicated to Life Sciences. We're currently seeking the following professional to join our organization:



**PROTEIN BIOCHEMIST
(Analytical Characterization)**

The selected individual will have experience in the areas of analytical protein chemistry and structural characterization of proteins. Experience with several of the following methodologies is desirable: bioanalytical method development, gel electrophoresis, IEF, chemical modification of proteins, proteolytic digestion of protein, HPLC analysis of proteins and peptides.

A BS/MS is required, as well as experience in a pharmaceutical or academic research setting. Prior experience with protein purification and analytical instrumentation, as well as the ability to work with low levels of sample is desired. Knowledge of protein purification schemes and an understanding of uses of mass spectrometry and conformational analysis for protein characterization would also be beneficial. We're seeking a team player with excellent communication and PC skills and the ability to coordinate and meet aggressive timelines. (Job Code: PB-AC)

We offer a competitive salary and benefits package. For consideration, please forward your resume to: **The Monsanto Company, 700 Chesterfield Pkwy, Job Code: PB-AC, Mail Code: BB5B, Chesterfield, MO 63198. EEO/AA Employer M/F/D/V.** Please visit our web site at www.monsanto.com.

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**Applications are solicited to fill the position of
Associate Dean for Basic Science
at the
University of South Carolina
School of Medicine**


The Associate Dean for Basic Science is an administrative faculty member of the School of Medicine who reports directly to the Dean. The successful candidate will have administrative experience and a documented record of scholarly activity in biomedical research. Applicants should be qualified for appointment as a senior faculty member in a basic science department.

Responsibilities of the position are to coordinate and enhance the educational, research, and service activities of the basic science departments, to advise the Dean on matters related to administration of the basic science division, and to implement the School of Medicine Strategic Plan in developing policy for the basic sciences.

Applications should include the following items: a letter of intent, a complete curriculum vitae, and the names and addresses of three references. Applications will be considered beginning April 1, 1998, and may be submitted in confidence to:

**Steven P. Wilson, Ph.D.
Chair, Selection Advisory Committee
Department of Pharmacology
University of South Carolina School of Medicine
Columbia, SC 29208**

AA/EOE.



**University of Alberta
Edmonton**

**Chair, Department of Biochemistry
Chair, Department of Laboratory
Medicine and Pathology
Chair, Department of Pharmacology
Faculty of Medicine & Oral Health Sciences**

The Chair of the Department of Biochemistry should be an outstanding scientist and leader. This appointment offers the successful candidate a superb opportunity for recruitment to an already strong Department. With 21 faculty, the Department supports an active graduate program and enjoys a complement of postdoctoral fellows and research associates. This is an exceptional opportunity to lead a prominent Department with a record of excellence in research in a collaborative and open academic environment. The Department of Biochemistry is home to the MRC Groups in Protein Structure and Function, Membranes, has strong links to the Protein Engineering Network of Centres of Excellence and actively participates in the Lipid Lipoprotein Research Group. The applicants should have demonstrated administrative and leadership abilities, with a strong record of accomplishment in research.

The Chair of the Department of Laboratory Medicine and Pathology must be clinically qualified and be eligible for licensure in the province of Alberta. The candidate must have excellent leadership qualities and the necessary experience to stimulate teaching and research programs spanning the basic and clinical areas. The successful candidate will be responsible for the undergraduate and postgraduate training problems which are coordinated throughout the Region. Consideration will also be given to the appointment of the Chair as the Clinical Director for Laboratory Services under the auspices of the Capital Health Authority.

The successful candidate for the Chair of the Department of Pharmacology will be an internationally recognized pharmacologist, clinical pharmacologist, or have equivalent training in a related field. This individual will provide dynamic and innovative leadership, complement the excellent ongoing research and teaching endeavors within the Department, and maintain a strong research program.

In these departments, the Alberta Heritage Foundation for Medical Research provides an ideal opportunity to establish new initiatives and attract outstanding investigators.

Details about the University of Alberta, Faculty, Edmonton and Province of Alberta can be found on the University's Home Page at <http://www.ualberta.ca>

The start date for these positions is flexible, but it is anticipated to be July 1, 1998. Interested candidates should submit a curriculum vitae outlining their current clinical and research interests and proposed future directions together with the names and addresses of three referees by March 27, 1998 to:

**Dr. D. Lorne J. Tyrrell, Dean
Faculty of Medicine and Oral Health Sciences
University of Alberta
2J2 WC Mackenzie Health Sciences Centre
Edmonton, Alberta, Canada T6G 2R7**

The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

...it makes sense.

UNIVERSITY OF ALBERTA

POSITIONS OPEN

The University of Manitoba, Department of Microbiology invites applications for full-time tenure-track positions at the **ASSISTANT PROFESSOR** level, commencing September 1, 1998, or on a date mutually agreed upon. Position: environmental or ecological microbiology; minimum qualifications are a Ph.D. in environmental or ecological microbiology or allied discipline, two years of postdoctoral experience, and evidence of a strong research potential in some aspect of environmental or ecological microbiology. Position: biochemistry; minimum qualifications are a Ph.D. in biochemistry or allied discipline, two years of postdoctoral experience, and evidence of a strong research potential in some aspect of biochemistry. Duties will include undergraduate and graduate teaching and supervision, research and service-related activities. These two positions are subject to final budgetary approval; salary range for these positions are \$40,868 to \$62,509.

The Department currently has 12 full-time tenure-track faculty members and two instructors, and offers a full range of both undergraduate and graduate programs in microbiology, biochemistry, biotechnology, and molecular genetics. The Department is also a participant in the Environmental Sciences Program. In addition, the Department has a well-established research program that is enhanced through close proximity to the University Delta Marsh Research Station and the Experimental Lakes Research Station. Further information about the Department can be obtained from website: <http://www.umanitoba.ca>.

Applicants should send a curriculum vitae and a summary of research interests including a brief research proposal, three letters of reference to: **Dr. P. C. Loewen, Department of Microbiology, University of Manitoba, Winnipeg, Manitoba R3T 2N2 Canada**. Closing date for receipt of applications is April 1, 1998.

Further information about the position can be obtained from: e-mail: peter_loewen@umanitoba.ca; Telephone: 204-474-8334.

The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, aboriginal peoples, and persons with disability. This advertisement is directed to Canadian citizens and permanent residents.

FACULTY POSITION PHARMACOLOGY

The Department of Pharmacology at the University of Nebraska Medical Center invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR OR HIGHER** level. We are looking for an individual with a strong research record and evidence of the ability to maintain an extramurally funded research program. Individuals with research interests in molecular approaches to neuroscience are particularly invited to apply. A competitive salary, benefits, and start-up package will be provided. Review of applications is ongoing and will continue until the position is filled. Further information on the department is available at website: <http://www.unmc.edu/Pharmacology/>. Applicants should submit a curriculum vitae, summary of research accomplishments, future research plans, and names of three references to: **Dr. Charles Murrin, Chair, Search Committee, Department of Pharmacology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-6260**. The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women and minority members are especially encouraged to apply.

HARVARD UNIVERSITY ASSISTANT PROFESSOR MOLECULAR AND CELLULAR BIOLOGY (MCB)

The Department of Molecular and Cellular Biology intends to make an Assistant Professor appointment (entry level). Our department covers a broad range of topics including molecular biology, cellular biology, developmental biology, structural biology, neurobiology, molecular evolution, and molecular genetics. We are seeking outstanding candidates and strongly encourage applications from women and minority candidates. Applications should include a curriculum vitae, reprints of publications, and a statement of present and future research plans (one to three pages). Complete applications and three letters of recommendation, solicited by the applicant, should be received no later than March 15, 1998. Mail applications to: **MCB Search Committee, Harvard University, 7 Divinity Avenue, Cambridge, MA 02138**.

Harvard University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry at the F. Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences (USUHS) in Bethesda, Maryland, invites applications for one tenure-track faculty position at the **ASSISTANT/ASSOCIATE** level available in 1998. Outstanding candidates in the areas of biochemistry, molecular and cell biology are encouraged to apply. Candidates must have postdoctoral experience and will be expected to develop a vigorous basic research program. The successful candidate will participate in training of students in medical school and in a graduate program. Please send curriculum vitae, reprints of three to five recent publications, a one-page statement of future research plans, and the names of at least three preferred references by February 28, 1998, to: **Ms. Jane Moran, Department of Biochemistry Search Committee, Uniformed Services University of the Health Sciences, F. Edward Hebert School of Medicine, 4301 Jones Bridge Road, Bethesda, MD 20814-4799**. USUHS is an Equal Opportunity Employer with a strong commitment to racial, cultural, and ethnic diversity.

ASSISTANT/ASSOCIATE PROFESSOR

The Department of Molecular Biology and Immunology of the University of North Texas Health Science Center at Fort Worth is seeking applicants for faculty positions immediately available at the level of Assistant or Associate Professor. Applicants must develop or already have established an independent research program in biochemistry, molecular biology, microbiology, or immunology. Competitive start-up funds and salary packages are available. Candidates with expertise in molecular biology with focus in virology or cancer research are especially encouraged to apply. Selected candidates will be expected to actively participate in courses for medical and graduate students. Selected candidates will have the opportunity to participate in doctoral programs partially supported by state funds. Faculty will have the opportunity to also belong to a new Institute for Cancer Research and other centers of excellence and work closely with the new Fort Worth biotechnology incubator. The Health Science Center is a state-supported institution housed in well-equipped facilities. The Center is situated adjacent to the multiple museums of the Cultural District of Fort Worth, an attractive and dynamic city with outstanding recreational and cultural attractions, highly favorable cost of living, and sunny climate. Send curriculum vitae, a summary of research interests and goals, plus three letters of recommendation by February 27, 1998, to: **Dr. Ronald H. Goldfarb, Professor and Chairman, Department of Molecular Biology and Immunology, University of North Texas Health Sciences Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699**. The University of North Texas Health Science Center at Fort Worth enjoys a smoke-free campus and is an Equal Employment Opportunity/Affirmative Action Institution.

ASSISTANT PROFESSOR

Applications are invited for both tenure-track and non-tenure-track Assistant Professor positions in The University of Alabama at Birmingham Department of Anesthesiology and Center for Free Radical Biology. Applicants should have expertise in the biochemistry and cell biology of oxygen radicals and nitric oxide. Appropriate areas of research expertise would include cardiovascular, pulmonary, central nervous system, and organ preservation/transplantation-related studies, with a particular emphasis on molecular and cellular biology. Opportunities exist for campus-wide interdisciplinary interactions with allied departments. Applicants should have postdoctoral experience and a strong record of scholarship. The successful candidate will be expected to develop a competitive, independent research program and excel in graduate and professional instruction. Send curriculum vitae, a brief statement of research interests, and the names and addresses of three references to: **Bruce A. Freeman, Ph.D., Professor and Vice Chair for Research, Director, University of Alabama at Birmingham Center for Free Radical Biology, 619 South 19th Street, TH-946, Birmingham, AL 35233**. FAX: 205-934-7437. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

MICROBIAL ECOLOGY NEW JERSEY INSTITUTE OF TECHNOLOGY RUTGERS UNIVERSITY-NEWARK

Applications are invited for a tenure-track faculty position in microbial ecology in the newly formed Federated Department of Biological Sciences, a joint entity of the New Jersey Institute of Technology (NJIT) and Rutgers University. Preference will be given to individuals with research interests involving interactions between organisms, genetic approaches to environmental or ecological problems, or similar issues. Candidates are expected to have a Ph.D. in an appropriate biological discipline, and a demonstrated record of successful research and peer-reviewed publication. The appointment will be preferentially at the level of **ASSISTANT PROFESSOR**. The Federated Department has a very active research program, with funding from NSF, NIH, DOE, EPA, and other sources. In addition, the successful candidate is expected to support the strong research program in environmental science at NJIT. Applications will be reviewed beginning March 2, 1998. Send curriculum vitae, a description of research and teaching interests, and three letters of recommendation to: **Dr. Edward G. Kirby, Chairman, Federated Department of Biological Sciences, Personnel Box BIO, New Jersey Institute of Technology, Newark, NJ 07102-1982**. Website: <http://silk.rutgers.edu/>. NJIT and Rutgers University are Equal Opportunity Employers.

URBAN FORESTER

The Environmental Science Program at DePaul University seeks an **ECOLOGIST** with a strong commitment to undergraduate education for a full-time, tenure-track position at the level of **ASSISTANT PROFESSOR**. The candidate is expected to develop courses in his/her specialty in support of a new program in urban forestry, to teach courses within the existing environmental science curriculum, including courses for non-majors, and to teach core courses in the environmental studies track of a newly established Program in Public Policy. An active research program is expected and supported. Areas of particular interest include, but are not limited to, restoration ecology, landscape ecology, dynamics of forest ecosystems, and forest management. A Ph.D. is required, and postdoctoral and teaching experience are preferred. Please send a letter of intent, curriculum vitae, and statements of teaching philosophy and research interests to: **Chair, Urban Forester Search Committee, Environmental Science Program, DePaul University, 1036 West Belden Avenue, Chicago, IL 60614**. Review of applications begins 27 February 1998. *DePaul University, an employer of choice, is committed to diversity and equality in education and employment.*

A **RESEARCH ASSISTANT PROFESSOR** position and a **POSTDOCTORAL POSITION** are available in the newly established Center for Animal Transgenesis and Germ Cell Research located at the New Bolton Center Campus of the School of Veterinary Medicine, University of Pennsylvania. A major focus of research is the biology of male germ line cells, including culture, transfection, and transplantation of spermatogonial stem cells. Emphasis is on farm animal species. Individuals with a background in cell and molecular biology and an interest in stem cells or germ cells are encouraged to apply. Send curriculum vitae, names of three references, and a letter describing research background and interests to:

R. L. Brinster
Center for Animal Transgenesis and
Germ Cell Research
School of Veterinary Medicine
University of Pennsylvania
3850 Baltimore Avenue
Philadelphia, PA 19104

LECTURER. Traditional Chinese medicine (TCM), Houston, Texas. Teaching techniques and methodologies of TCM with particular attention to pharmacological analysis of traditional Chinese pharmacopoeia and to acupuncture, in both classes and seminars. Master's in oriental medicine, acupuncture, or TCM and two years of experience in job offered. Eligibility for Texas licensure in acupuncture and fluency in Mandarin Chinese required. \$28,800 per year, 9:00 to 6:00, Monday through Friday, 40 hours per week. Apply at: **The Texas Workforce Commission, Houston, Texas**, or send résumé to: **The Texas Workforce Commission, 1117 Trinity, Room 424T, Austin, TX 78701, J.O. #TX7857895**. Advertisement paid by an Equal Opportunity Employer.

SYMPOSIUM

YELLOWSTONE NATIONAL PARK'S 125TH ANNIVERSARY SYMPOSIUM MAY 11-24, 1998 AT MONTANA STATE UNIVERSITY BOZEMAN, MONTANA



A two-week symposium commemorating 125 years of Yellowstone National Park's influence on scholarly research and creative activities will be held at Montana State University, Bozeman, Montana and is designed to attract an international audience of world-class researchers. The goal of the symposium is to highlight the interplay between universities, natural areas such as Yellowstone, and humankind.

Conferences include: National Parks in the Global Ecosystem
The Greater Yellowstone GEO-Ecosystem; An Integrated View of Geology and Biology
Life in Extreme Environments
Fire and the Yellowstone Ecosystem: Ten Years of Study and Change

Workshops include: The Greening of Yellowstone
The Greater Yellowstone Data Clearinghouse: A Paradigm for Sharing Information
Biosphere-Geosphere Linkages in Yellowstone: Defining a New Generation of
Ecosystem Research in Greater Yellowstone

Field Trips include: Two days in Yellowstone National Park in conjunction with "The Greater Yellowstone
GEO-Ecosystem, An Integrated View of Geology and Biology"
One day in the Park in conjunction with "The Greening of Yellowstone"
One day in the Park in conjunction with "Fire and the Yellowstone Ecosystem"

Exhibits include: Art, Photography, Library documents exhibits, and a Film Series

Other: Concerts, Black Tie Ball, Special Opening and Closing ceremonies at MSU and a final closing
at Old Faithful, Yellowstone National Park with many distinguished speakers.

For further information: Carolyn Manley, Conference Coordinator, Mountain Research Center,
Montana State University, P.O. Box 173490, Bozeman, MT 59717
Phone: 406.994.5145. E-mail: carolyn@peak.mrc.montana.edu
www.mrc.montana.edu/YNP_125



...is what you will find at Otsuka America Pharmaceutical, Inc., a progressive, global organization. We currently have an excellent opportunity at our corporate headquarters in Rockville, Maryland:

Neuroscience/Pharmacology

We are seeking two candidates with a Ph.D. in Neuroscience, Pharmacology or related discipline and at least 3-5 years of pharmaceutical industry (or academic) experience that includes in vitro and in vivo models.

The first position requires skills in an array of neurochemical and neuropharmacological techniques, with expertise in vitro receptor pharmacology, molecular/cellular biology, signal transduction pathway and neuroanatomy, and/or in vivo models of psychiatric and neurological disorders.

The second position requires a strong background in the study of molecular and cellular mechanisms responsible for neuronal degeneration in Alzheimer's and Parkinson's disease. We seek an individual skilled in in vitro and/or in vivo models of neurodegenerative.

We offer a competitive compensation and benefits package. Please mail or fax your resume to: Staffing Department, Otsuka America Pharmaceutical, Inc., Dept. NPS, 2440 Research Boulevard, Rockville, MD 20850. Fax: 301-212-8647. An equal opportunity employer.

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DIRECTOR

ENVIRONMENTAL STUDIES PROGRAM

Emory University seeks a Director for a new Environmental Studies Program, housed in Emory College, with associated activities in the Graduate School of Arts and Sciences and Professional Schools. The appointment will be a tenured professorship. Candidates should be at either the rank of associate or full professor. Candidates must demonstrate distinguished research contributions in either a natural or social science field, a history of strong research and programmatic support, a track record of effective interdisciplinary dialogue, and the ability to build cooperative intellectual teams. Candidates must also show evidence of a strong commitment to innovative teaching and administrative skills in program building, whether in an academic or nonacademic setting. Candidates are requested to send a letter describing their past experience, curriculum vitae, and names of three references to **Steven Sanderson, Vice-President for Arts and Sciences and Dean of Emory College, Room 300 White Hall, Emory University, Atlanta, GA 30322**. Applications will be reviewed beginning March 15, 1998. *Emory is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply.*

NRC-CNRC

Women in Engineering and Science Program

Canadian women thinking of pursuing a career in mathematics, science or engineering, are bound to hear about National Research Council Canada.

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POSITIONS OPEN

PHYSICAL OCEANOGRAPHER

The Department of Marine Sciences of the University of Georgia's School of Marine Programs seeks a tenure-track **ASSISTANT PROFESSOR** for fall 1998 in the area of physical oceanography. Specific areas of interest include, but are not limited to, coastal or estuarine processes and biological-physical interactions.

Current faculty conduct research on a wide range of biological, chemical, and physical processes in marine and freshwater environments and collaborate on large-scale studies at the land/sea interface. The successful candidate will be expected to develop an independent, funded research program and to participate in graduate and undergraduate instruction. The candidate will also be encouraged to collaborate with School of Marine Programs faculty in Athens and at the Marine Institute on Sapelo Island and the Marine Extension Service facilities in Brunswick, Georgia and on Skidaway Island, Georgia. Applicants should send a curriculum vitae, a brief statement of research and teaching interests, and names and addresses of three references to: **Chair, Search Committee, Department of Marine Sciences, Marine Sciences Building, University of Georgia, Athens, GA 30602-3636.** Inquiries may be addressed to: **Dr. James T. Holibaugh, e-mail: jth@uga.cc.uga.edu.** Applications received by April 3, 1998, are assured full consideration. *The University of Georgia is an Equal Opportunity Employer.*

EVERT AND MARION SCHLINGER ENDOWED CHAIR IN INSECT SYSTEMATICS UNIVERSITY OF CALIFORNIA, DAVIS

The Department of Entomology seeks applicants for an Associate/Full Professor (15 percent teaching) and Associate/Full Entomologist in Agriculture Experiment Station (85 percent research). The appointee will organize and present undergraduate/graduate courses in area of specialization and in the department teaching program, supervise graduate students, curricular development, participate in outreach programs, and perform University service. Provide leadership to systematic research on campus and maintain research program in any group of insects or terrestrial arthropods.

Ph.D. in a biological science, demonstrated leadership in modern insect or terrestrial arthropod systematics, and training and experience in maintaining a comprehensive research program.

This nine-month tenured, 11-month term position is available September 1, 1998. Send letter of application, curriculum vitae, brief statement of career goals for teaching and research, reprints, names, addresses, and telephone numbers of three referees to: **L. S. Kimsey, Search Committee, Department of Entomology, University of California, Davis, CA 95616.**

The University of California is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF FLORIDA

Seeks **ASSOCIATE PROFESSOR** and **CHIEF/PROFESSOR** and **CHIEF** for the Department of Medicine, Division of Gastroenterology, Hepatology, and Nutrition. M.D. degree, B.C. in internal medicine and gastroenterology, research experience. A Physician Investigator who has a well-established research program and who can direct the existing research training grant in gastroenterology is being sought. Existing program is well balanced in respect to providing excellent clinical care and performing both basic and clinical research. Qualified candidates should possess the abilities to lead and develop programs in research, education, and health care delivery. This is a tenure-track position. Salary and benefits commensurate with experience. Recruiting deadline: February 28, 1998. Anticipated starting date: July 1, 1998. Please submit curriculum vitae and other information to: **Dr. Frederick Southwick, Professor and Chief, Box 100277 JHMC, Gainesville, FL 32610.** *An Affirmative Action/Equal Opportunity Employer.*

University of Oklahoma Health Sciences Center and the VA Medical Center in Oklahoma City are seeking a qualified candidate at the **ASSISTANT/ASSOCIATE PROFESSOR** level in the area of neurophysiology. Candidate will participate in teaching and academic activities of the Neurology Department and have experience and capability of initiating and carrying forward a research program in neurophysiology. Send information to: **James Couch, M.D., Ph.D., VA Medical Center, P.O. Box 26901, Oklahoma City, OK 73190-3048.** *OUHSC and VAMC are Equal Opportunity/Affirmative Action Employers.*

POSITIONS OPEN

ANATOMIST DEVELOPMENTAL BIOLOGIST

The Department of Anatomy of the University of Puerto Rico School of Medicine invites applications for two full-time tenure-track positions as **ASSISTANT/ASSOCIATE PROFESSOR**. Applicants should have a Ph.D. and preferably postdoctoral experience. They will be expected to teach medical gross anatomy, and at least one will be expected to participate also in a team-taught course in human embryology. Successful applicants will be expected to develop and conduct productive research programs with high potential for attracting external funding support. Area of research interest is open, with preference for developmental/cell biology. Evidence of teaching proficiency in gross anatomy and/or human embryology, and a strong commitment to graduate student training, are highly desirable. The appointments will begin July 1, 1998. Review of applications will begin immediately and continue until the positions are filled. Send curriculum vitae, statement of research plans, and names of three references to: **Dr. John G. H. Cant, Director, Department of Anatomy, School of Medicine, University of Puerto Rico, GPO Box 365067, San Juan, PR 00936-5067.** Telephone: 787-754-6274; FAX: 787-767-0788. E-mail for inquiries but not applications, e-mail: **j_cant@rcmaca.upr.clu.edu.** *The University of Puerto Rico is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR. Unit for Laboratory Animal Medicine, University of Michigan Medical School, Ann Arbor. Candidates must have a veterinary degree, advanced training, and evidence of productivity in research. This is a tenure-track position and the primary emphasis will be research. Research interests and activities should include development or use of animal models of human biology or investigation of diseases of laboratory animals. Research emphases in the Medical School include inflammation, microbial pathogenesis, organogenesis, cell biology, molecular biology, signal transduction, protein structure and function, genetics, gene therapy, integrative physiology, neuropharmacology, aging, cancer biology, and diabetes mellitus. The successful candidate is expected to establish a research program capable of attracting national funding, instruct veterinary Postdoctoral Fellows and graduate students, and perform service responsibilities in the Unit. Rank and salary are commensurate with training and experience. Send cover letter including statement of research interests and plan, curriculum vitae, and names of at least three references to: **Daniel H. Ringler, D.V.M., Director, Unit for Laboratory Animal Medicine, 1150 West Medical Center Drive, University of Michigan, Ann Arbor, MI 48109-0614.** *The University of Michigan is a nondiscriminatory, Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR. Ph.D. tenure-track, Department of Surgery, Medical University of South Carolina. Seeking an independent investigator with experience and interest in cancer vaccine and/or gene therapy development to work as part of a new molecular oncology translational research group. Qualifications: Ph.D. with relevant postdoctoral fellowship. Should have evidence of research productivity with peer-reviewed publications and clear potential for independent funding. Responsibilities: development of an independent laboratory in close collaboration with funded surgical faculty with an emphasis on translation into novel cancer therapies. Excellent laboratory resources and support. Contact: **D. J. Cole, M.D., Medical University of South Carolina Department of Surgery, 171 Ashley Avenue, Charleston, SC 29425.** Telephone: 803-792-1387; FAX: 803-792-2048; e-mail: **coledj@musc.edu.**

ACADEMIC OPHTHALMOLOGISTS/ INSTRUCTORS

The University of Nebraska College of Medicine, Department of Ophthalmology, is seeking one full-time Academic Ophthalmologist to serve as Instructor for the period August 1, 1998 through June 30, 1999. A retina specialist is desired. A strong commitment to resident and medical student teaching, as well as an interest in research, are essential. Requirements include completion of a satisfactory residency program and prior teaching experience. Send curriculum vitae to: **Michael E. Yablonski, M.D., Ph.D., Professor and Chairman, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-5540.** *Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

POSITIONS OPEN

Faculty position in microanatomy. The Department of Veterinary Pathobiology, University of Minnesota wishes to fill a twelve-month, full-time, tenured/tenure-track faculty position in the field of microanatomy with a candidate who is experienced in teaching microanatomy and conducting research. Rank (**ASSOCIATE** or **ASSISTANT PROFESSOR**) and tenure status will depend on qualifications and experience. The successful candidate will spend approximately 50 percent time in teaching-related activities in the D.V.M. program and can expect to assume primary responsibility for teaching at least one professional microanatomy course as well as participating in teaching other veterinary anatomy courses. Candidates must have the potential to develop a research program that has strong collaborative interactions with existing departmental research programs in the areas of molecular biology, cell biology, and/or neuroscience. Candidates must have a Ph.D. degree or equivalent foreign degree. A D.V.M. or equivalent degree is desirable. Send a curriculum vitae, a statement of teaching experience and research interests, and three letters of recommendation that comment on teaching and research capability, by May 30, 1998, to: **Dr. Thomas F. Fletcher, Search Committee Chair, Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Minnesota, 1988 Fitch Avenue, St. Paul, MN 55108.** E-mail: **fletc003@tc.umn.edu.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

ASSISTANT PROFESSOR WICHITA STATE UNIVERSITY

Two full-time, tenure-track faculty positions are available at the Assistant Professor level in the Department of Biological Sciences starting in August, 1998. Applications will be considered in any area of biology, but preference will be given to individuals whose scientific expertise complements existing strength in endocrinology, reproductive biology, molecular genetics, and environmental biology. Qualifications include postdoctoral training, use of cell/molecular methods in research, a strong record of scholarly achievement, commitment to teaching at undergraduate and graduate level, and the ability to interact collegially. Excellent lab facilities available for molecular biology and tissue/cell culture research with new confocal microscope. Deadline for applications is February 27, 1998, or the first of the month until the position is filled. Submit curriculum vitae, statement of professional plans, and addresses of three references to:

**Chairperson, Search Committee
Department of Biological Sciences
Campus Box 26
Wichita State University
1845 Fairmount
Wichita, KS 67260-0026**

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THE CLEVELAND CLINIC FOUNDATION CENTER FOR ANESTHESIOLOGY RESEARCH

ASSISTANT PROFESSOR-level position to lead our basic and/or clinical research program in pain. Doctoral degree (M.D. and/or Ph.D.) and postdoctoral training required. Primary focus on research, but clinical opportunities available. Join a growing research program in the Division of Anesthesiology and Critical Care Medicine utilizing *in vivo*, *in vitro*, and molecular techniques to address fundamental research issues. Numerous collaborative opportunities in clinical departments and the Lerner Research Institute. Competitive salary and start-up funds. Candidates should send curriculum vitae, names and FAX numbers of three references, and a brief statement of research interests to: **Dr. Paul A. Murray, Carl E. Wasmuth Endowed Chair and Director, Center for Anesthesiology Research—FF40, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44198.** *The Cleveland Clinic Foundation is an Affirmative Action/Equal Opportunity Employer.*

Calbiochem-Novabiochem Corp. is a developer and worldwide supplier of specialty antibodies, reagents, and assay kits to the biomedical company. We seek the following: **Ph.D. ORGANIC CHEMIST** (for sales and marketing business development), **PROTEIN BIOCHEMIST, PRODUCT MANAGER.** For further information, please see our profile on-line, website: **http://recruit.sciencemag.org.** Submit résumé/salary requirements to: **Attn: HR/SPN, 10394 Pacific Center Court, San Diego, CA 92121.** *Affirmative Action/Equal Opportunity Employer.*

MEETING

Invitation to Meeting and
Call For Poster Abstracts

The Glutamate Cascade: Common Pathways of Central Nervous Disease States

May 3-5, 1998

Masur Auditorium, Building 10
National Institutes of Health
Bethesda, Maryland

Glutamate and Receptors, Addiction, Stroke, Epilepsy,
Pain, Neurodegenerative and Psychiatric Disorders

Gary J. Bennett
Dennis W. Choi
J. Timothy Greenamyre
Stephen F. Heinemann
Paula L. Hoffman
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Stuart A. Lipton
Mitchell B. Max
Tracy K. McIntosh

John H. Morrison
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Piotr Popik
Luigi Pulvirenti
Michael A. Rogawski
Phil Skolnick
Marina Wolf
Walter Zieglgänsberger
Stephen R. Zukin

Barbara H. Herman, *Chair of Meeting*
CTB, MDD, NIDA, NIH

For Registration, Poster, and Abstract Information, contact:
Robyn Semsler
(301) 468-6004, ext. 431
rsemsler@md.capconcorp.com

Poster abstract deadline is Feb. 25, 1998 or first 100 received



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For program and registration information contact:

Science and Technology Meetings, NYAS
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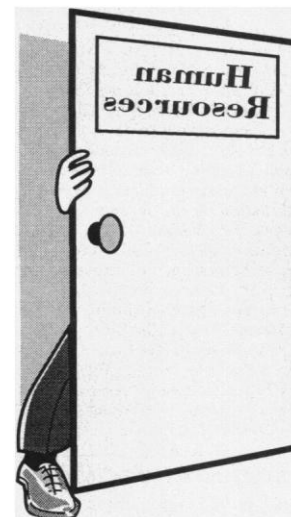
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POSITIONS OPEN

UNIVERSITY OF CALIFORNIA PLANT SCIENTIST

ASSISTANT-LEVEL Cooperative Extension (CE)/Agricultural Experiment Station (AES) academic career-track appointment (11 months). The Department of Botany and Plant Sciences, University of California, Riverside, is recruiting for a position in the area of subtropical crops with emphasis in citrus and avocado.

Applicants are required to have a Ph.D. in a plant science-related field and at least one year of postdoctoral experience. The position includes both CE and AES responsibilities, including educational efforts within the citrus and avocado industries, establishing communication channels for conveyance of results from basic and applied research programs to all facets of the subtropical fruit industries, and research on subtropical crops, emphasizing citrus and avocado, using tools of plant physiology, breeding, and/or molecular genetics to enhance fruit quality and productivity. Experience with tree crops is preferred but is not essential. Opportunities also exist for supervising graduate students.

The College of Natural and Agricultural Sciences has a rich history and an active group of researchers in subtropical agriculture including faculty in the Departments of Botany and Plant Sciences, Entomology, Plant Pathology, Nematology, and Soil and Environment Sciences. University of California Cooperative Extension has a national reputation for innovative and independent research and extension programs. Funding opportunities exist from state and federal agencies, as well as the California avocado and citrus industries which currently provide more than 2 million dollars per year in grant support for basic and applied research projects.

Send letter of application, curriculum vitae, statement of research interests, transcripts, and arrange to have at least three confidential letters of reference sent to: **Dr. Elizabeth M. Lord, Chair, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521-0124. E-mail: lord@ucr.aci.ucr.edu; FAX: 909-787-4437; website: http://cnas.ucr.edu/~bps/homepage.htm.** Deadline: review of files will begin in April 1998, and will continue until the position is filled. Position available: July 1, 1998.

The University of California, Riverside is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. The Biochemistry and Cellular and Molecular Biology Department at the University of Tennessee at Knoxville seeks a Geneticist studying problems in neurobiology. Opportunities for professional interaction include Geneticists and Neuroscientists in the department as well as at the University Hospital, the College of Veterinary Medicine, and the Life Sciences Division at Oak Ridge National Laboratory. Desired qualifications include several years of postdoctoral training, evidence of significant scientific productivity and of the potential to develop and maintain a vigorous, independent, and extramurally funded research program. Teaching responsibilities will include efforts at both the undergraduate and graduate level. For more information on the department visit the website: <http://utk-biowg.bio.utk.edu/bcmbdept.nsf>. Interested candidates should submit a résumé including research goals, as well as teaching experience and goals, and three letters of recommendation to: **Bruce McKee, Ph.D., Chair of the Search Committee, Biochemistry and Cellular and Molecular Biology Department, WLS M407, University of Tennessee, Knoxville, TN 37996-0840.** Review of applications will begin on February 15, 1998. *University of Tennessee at Knoxville is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADEA Employer.*

RESEARCH ASSOCIATE

Self-motivated Ph.D.'s and/or M.D.'s experienced in "regulation of gene expression" and/or "tumor immunobiology" are invited to apply for challenging positions with career advancement opportunities in a rapidly expanding research program focused on immunomodulatory gene therapy for cancer. The laboratories are located in a newly constructed research tower with state-of-the-art equipment to facilitate progress. Qualified candidates should submit applications, including updated curriculum vitae and bibliographies, plus three letters of recommendation to: **Dr. Savio L. C. Woo, Professor and Director, Institute for Gene Therapy and Molecular Medicine, Box 1496, One Gustave L. Levy Place, New York, NY 10029-6574.** *We are an Equal Opportunity Employer fostering diversity in the workplace.*

POSITIONS OPEN

BOSTON MEDICAL FACULTY POSITION

The Boston Biomedical Research Institute, an independent, nonprofit research institute located in the heart of Boston (see website: <http://www.bbri.harvard.edu>), invites applications for a **JUNIOR or SENIOR RESEARCH FACULTY** position from scientists with postdoctoral experience and significant research accomplishments in the cell biology, biochemistry, and/or molecular biology of non-muscle cell motility. Those whose interests interface the cytoskeleton and signal transduction are especially encouraged to apply. The successful candidate will complement the research of several investigators at the Institute with interests in different aspects of contractility, signal transduction, and regulation of cell growth and will establish an independent, externally funded research program. A generous start-up package is available. Applicants should submit by mail a curriculum vitae, a brief statement of research plans, and arrange to have letters from three references sent to: **Dr. Lynne M. Coluccio, Chair, Search Committee, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114.** Screening of applications will begin on February 15, 1998, and will continue until the position is filled.

RESEARCH ASSISTANT PROFESSOR PHYSICS AND INSTRUMENTATION

Applications are being accepted for a Research Assistant Professor in physics and instrumentation in the Department of Radiology, University of Pennsylvania. This position is in the research track and will not lead to tenure. The successful candidate will be expected to join a research program in developing receptor-specific SPECT imaging agents, specifically on radiotracers for *in vivo* imaging of central nervous system receptors with emphasis on pharmacokinetic modeling and application in psychiatric patients. Require Ph.D. degree in physics or bioengineering. Expertise in SPECT imaging and kinetic modeling is desirable. Duties will include multidisciplinary research and development of extramural funding. Excellent facilities and collaborative opportunities exist. Interested candidates should send their résumé and the names and mailing and e-mail addresses of three references to: **Hank F. Kung, Ph.D., Department of Radiology, University of Pennsylvania, 3700 Market Street, Room 305, Philadelphia, PA 19104. E-mail: kunghf@sunmac.spect.upenn.edu; website: http://sunmac.spect.upenn.edu/.** *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Institution.*

MEDICAL OFFICER

The U.S. Department of Agriculture, Food Safety and Inspection Service, Office of Public Health and Science, Epidemiology and Risk Assessment Division, has a Medical Officer position to be filled at the GS-14 level. The incumbent must possess a Doctor of Medicine or a Doctor of Osteopathy degree; at least one year of approved internship or residency; and 52 weeks of specialized experience, which includes a demonstrated knowledge of epidemiological studies. *Applicants must be a U.S. citizen.* Applicants must **Telephone: 202-720-8601** to request a copy of vacancy announcement number FSIS 98-35 for the eligibility requirements, summary of duties, and procedures on how to apply for this position. Complete applications must be postmarked no later than March 16, 1998. *USDA is an Equal Opportunity Employer.*

CYTOGENETICS LABORATORY DIRECTOR

Genzyme Genetics is seeking applicants for the position of Cytogenetics Laboratory Director for its Santa Fe, New Mexico facility. Candidates must be American Board of Medical Genetics-certified in clinical cytogenetics. Significant experience in managing a cytogenetics laboratory is required. Interested applicants should submit a letter of interest, curriculum vitae, and a list of references to:

**Diane Marbourg, Human Resources Manager
Genzyme Genetics
2000 Vivigen Way
Santa Fe, NM 87505
FAX: 505-438-2277**

Genzyme Genetics is an Equal Opportunity Employer that is proud of the diversity of its work force.

POSITIONS OPEN

MOLECULAR GENETIC STUDIES OF PLANT BIODIVERSITY AND PLANT GENOMICS

The Boyce Thompson Institute for Plant Research at Cornell University invites applications for a tenure-track position for a Scientist using molecular or genetic techniques to address fundamental questions relating to the functional and evolutionary diversity of plant genomes. Research areas of interest include, but are not limited to, adaptation to biotic or abiotic stresses; genetics and biochemistry of plant-insect or plant-pathogen interactions; evolution or analysis of complex traits; comparative analysis of germplasm or natural populations; genomic analysis of the evolution of plant form or function.

The successful candidate will establish an independent, extramurally funded research program and collaborate with colleagues at the Boyce Thompson Institute and elsewhere on the Cornell University campus. This position is synergistic with a molecular biodiversity/genomics initiative currently being implemented at Cornell University. Generous start-up funds and benefits are available. Candidates will be considered at all levels. Review of applications will begin February 23 and continue until the position is filled.

Applicants should send a curriculum vitae, statement of research interests, and names of at least three references to: **Molecular Biodiversity Search Committee, Boyce Thompson Institute, Ithaca, NY 14853.** Questions regarding appropriate research areas may be directed to: **Dr. David Stern, Telephone: 607-254-1306; FAX: 607-255-6695; e-mail: ds28@cornell.edu.**

Boyce Thompson Institute is a private, independent, nonprofit research institute formally affiliated with Cornell University. *Boyce Thompson Institute is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the diversity of its faculty and staff. Applications from women and minorities are encouraged.*

USDA-ARS RESEARCH SCIENTIST POSITIONS

USDA-ARS Western Cotton Research Laboratory, Phoenix, Arizona, seeks applicants for two GS-11/12 Research Scientist positions. *Must be U.S. citizen.* Ph.D. and postdoctoral experience desirable. Salary commensurate with experience (\$38,000 to \$46,000). Applications accepted February 2 through March 2, 1998.

RESEARCH ENTOMOLOGIST. We seek an innovative Research Scientist to study the physiological, behavioral, and ecological processes that regulate host selection, longevity, reproduction, nutrition, intra- and interspecific relationships, and adaptation to environmental stresses in cotton insect pests. Special emphasis will be placed on (1) determining plant- or insect-derived stimuli and/or feedback mechanisms, (2) identifying and characterizing effects of host plant morphology, physiology, and nutritional components, and (3) identifying and characterizing effects of abiotic environmental factors.

RESEARCH ENTOMOLOGIST/RESEARCH PLANT PHYSIOLOGIST. We seek an innovative Research Scientist to study the molecular basis of insect-plant interactions in cotton. Special emphasis will be placed on (1) elucidating the molecular regulation of carbohydrate metabolism of homopteran insect pests of cotton, (2) localization within the insect of key regulatory enzymes involved in carbohydrate metabolism using electron and/or confocal microscopy in conjunction with specific antibody probes or *in situ* hybridization with probes for the expressed mRNA's, and (3) determining plant defensive and adaptive responses to pest infestation.

For further information and application materials contact: **Mr. Mike Wiggert, USDA/ARS, 4317 East Broadway Road, Phoenix, AZ 85040. Telephone: 602-379-3714 ext. 281.** *USDA/ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply.*

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Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

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Biochemistry Research Technicians

Seeking two BS/MS scientists to join our interdisciplinary team working on biomaterials for wound healing and tissue engineering. One position requires experience in protein chemistry, expression, and characterization. Familiarity with organic or polymer chemistry or molecular modeling a plus. The second position requires experience in cellular and molecular biology with emphasis in cell culture. Familiarity with tissue engineering and protein chemistry a plus. Dept. AD/BRT.

Chemistry Research Technician

Seeking a BS/MS chemist to join our team working on novel polymer-based materials for tissue engineering and augmentation applications. Polymer chemistry and synthesis experience required. Familiarity with analytical techniques and instrumentation is desirable. Dept. AD/CRT

We offer a competitive salary and comprehensive benefits plan, including a matching 401(K), non-contributing health care, short and long-term disability, and dental and vision. For immediate confidential consideration, send your resume to: Andrea Delvecchio, Human Resources, United States Surgical Corporation, Dept. Code, 195 McDermott Road, North Haven, CT 06473. We are an equal opportunity employer.



TOP TECHNOLOGY TRANSFER POSITION AVAILABLE AT THE NATIONAL CANCER INSTITUTE

The National Cancer Institute (NCI) is seeking an outstanding, dynamic, and experienced innovator to lead us into the next century. This individual will be responsible for overseeing the NCI technology transfer office and related activities with a focus on developing partnerships and novel mechanism to support these partnerships. This position provides an opportunity to work with cancer researchers unrivaled throughout the world!

The NCI has a large patent/licensing portfolio resulting in one of the highest levels of royalty incomes of all federal agencies. NCI also has an extremely active technology development program in government-industry-academic partnerships which span basic, applied, pre-clinical, and clinical research areas. Recent changes in NCI leadership have focused on technology development and transfer as a key initiative for the upcoming years.

To qualify, candidates must have a degree in an academic field related to the health sciences or allied sciences appropriate to the work of the position, and have at least one year of specialized experience. For further information on this position, please contact **Ms. Bonnie Breeden** on (301) 402-4375, to obtain a copy of the application package. Applicants must respond by 2/17/98.

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- Employers exhibiting at the Career Fairs may contact you before the event to arrange a personal meeting at our Career Fair. Employers are expecting to see you at the fair, so only post your résumé if you plan on attending.

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POSITIONS OPEN

RESEARCH MICROBIOLOGIST ROMAN L. HRUSKA U.S. MEAT ANIMAL RESEARCH CENTER Clay Center, Nebraska

The U.S. Department of Agriculture, Agricultural Research Service, is seeking a Microbiologist (GS-12/13) to be a member of a research team that conducts research to develop the necessary technology to reduce foodborne pathogens for red meat. The candidate will complement the capabilities of an experienced team of scientists by providing molecular biology expertise. A Ph.D. in microbiology is preferable with extensive work experience in molecular biology techniques. Work experience with foodborne pathogens desirable. *Must be a U.S. citizen.* Salary is commensurate with qualifications and experience. The U.S. Meat Animal Research Center is a modern, well-funded research facility in south-central Nebraska. The overall mission of the Center is to develop technology to increase production efficiency and improve meat quality and wholesomeness of beef, sheep, and swine through multidisciplinary, integrated research conducted at the cellular through animal level. The 60-plus researchers at the Center represent a wide range of scientific disciplines, from basic molecular genetics and mathematical modeling to population biology and biological engineering. For information on the research program and position, contact: **Dr. Mohammad Koohmaria**, Telephone: 402-762-4221; e-mail: koohmaria@mail.marc.usda.gov. For a copy of vacancy announcement #ARS-D8W-082, see website: <http://www.ars.usda.gov>. USDA, ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply.

MICROBIOLOGIST

United States Department of Agriculture, Agricultural Research Service, Southeast Poultry Research Laboratory, Athens, Georgia, has an opening for a permanent **RESEARCH SCIENTIST**. The Scientist will conduct basic research and provide research direction to identify unique genetic characteristics for discriminating between *Salmonella enteritidis* isolates, and to apply this information to understanding the complex ecosystems on the farm. Applicants must have B.Sc. degree in microbiology or related field, plus a directly related Ph.D. or equivalent doctoral degree in microbiology or genetics, or one year of specialized experience equivalent to grade level GS-12/GS-13. Candidates must have professional knowledge of microbiology, biochemistry, epidemiology, statistics, and genetics and the ability to perform biochemical and nucleic acid-based procedures for identification and differentiation of bacteria. Salary commensurate with experience (\$46,254 to \$71,503). For information on the research program, contact: **Dr. David E. Swayne**, Telephone: 706-546-3433. For information on application procedures, contact: **Roger O. Moore**, Telephone: 301-344-1865. *U.S. citizenship required.* Applications must be identified by advertisement #S-8-007, postmarked by 2 March 1998, and sent to: **Roger O. Moore, USDA, ARS, HRD, 6305 Ivy Lane, Room 344, Greenbelt, MD 20770.** USDA/ARS is an Equal Opportunity Employer.

DIRECTOR OF CARDIOVASCULAR RESEARCH AT METROHEALTH MEDICAL CENTER

Candidate (M.D. or Ph.D.) must bridge clinical and basic science investigation and should have a funded research program in either vascular biology or cardiac electrophysiology to complement existing strengths at the Rammelkamp Center for Education and Research. The position is at the Staff Scientist or Associate Professor level. Salary and start-up package are competitive.

Send curriculum vitae to:

Lee A. Biblo, M.D.

Director, Division of Cardiology
and

Arthur M. Brown, M.D., Ph.D.

Vice President, Rammelkamp Center for
Education and Research
MetroHealth Medical Center
2500 MetroHealth Drive, Room H332
Cleveland, OH 44109-1998

The Hospital and The University are Equal Opportunity/Affirmative Action Employers.

POSITIONS OPEN



U.S. ENVIRONMENTAL PROTECTION AGENCY INTERDISCIPLINARY PRINCIPAL INVESTIGATOR

The U.S. Environmental Protection Agency's (EPA) National Health and Environmental Effects Research Laboratory, Neurotoxicology Division, Cellular and Molecular Toxicology Branch in Research Triangle Park, North Carolina, conducts research on the effects of exposure to environmental pollutants on neurochemical endpoints of adult and developing organisms. To enhance our research in this area, we anticipate opening one Principal Investigator position in either discipline: **RESEARCH BIOLOGIST** or **TOXICOLOGIST**. The ideal candidate should have a Ph.D. in pharmacology, toxicology, neurobiology, or a closely related discipline and postdoctoral experience; demonstrates the ability to conduct research on the effects of exposure to environmental agents on neurobiological systems; has expertise in the area of neuroscience including neuroanatomy, neuroimmunology, neurochemistry, neuropharmacology, or molecular neurobiology; and is able to communicate research findings both orally and in writing. Experience studying neural-glial interactions and cell-to-cell communication will be considered advantageous. Knowledge and experience with molecular biological techniques are also desirable. *U.S. citizenship is required.* Please send a curriculum vitae and a letter describing your research interests and career goals to:

Dr. Hugh A. Tilson
Neurotoxicology Division (MD-74B)
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

The U.S. Environmental Protection Agency is an Equal Employment Opportunity Employer.

PROGRAM DIRECTOR—USDA ECOLOGIST/RHIZOSPHERE BIOLOGIST/SOIL SCIENTIST

The National Research Initiative Competitive Grants Program (NRI) of the U.S. Department of Agriculture seeks a qualified scientist to serve as permanent Program Director for research grants administration in the area of soil science, rhizosphere biology, or wetland, riparian, forest, or agroecology. Candidates must have an advanced degree with major study in one of the areas listed above or a closely related field. It is preferable that the candidate have a Ph.D. or equivalent specialized experience. This is a competitive vacancy, *open only to all United States citizens.*

Closing date is March 2, 1998. A complete application must include an explicit written discussion of Quality Ranking Factors, which are described in the Vacancy Announcement. This discussion will be used to help determine the best qualified applicants. Interested persons are urged to contact: **Dr. Anne Datko**, Division Director, for information on the position or to obtain a Vacancy Announcement. She can be reached at: **The NRI, CSREES/USDA, STOP 2241, 1400 Independence Avenue S.W., Washington, DC 20250-2241.** Telephone: 202-401-4871; FAX: 202-401-6488; e-mail: adatko@reusda.gov. For information on application procedures/forms contact: **The Human Resources Division**, Telephone: 301-344-3960. The Vacancy Announcement (CSREES-97-064) can also be obtained from the Human Resources Division or via website: <http://www.reusda.gov/new/hrd/98-064.htm>. USDA is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately for highly motivated individuals in one of three areas.

Dr. Brian Aneskievich: retinoid regulation of keratinocyte differentiation. Expertise in molecular biology required.

Dr. Beatrice Haimovich: isolation and characterization of novel platelet proteins that regulate cell spreading. Expertise in biochemistry required.

Dr. Steve Ward: Study of sperm chromatin protein nuclear structures that organize the DNA.

Send curriculum vitae, letter describing research interests, and two to three letters of reference to: **Dr. Aneskievich, MEB Room 584; Dr. Haimovich, MEB Room 433; or Dr. Ward, MEB Room 588, Department of Surgery, University of Medicine and Dentistry of New Jersey, New Brunswick, NJ 08903-0019.**

POSITIONS OPEN

The Laboratory of Immunopathology (LIP), National Institute of Allergy and Infectious Diseases seeks an M.D. or Ph.D. **INVESTIGATOR** at the Professor level to serve as **HEAD** of a section within the Laboratory. The LIP conducts basic research in murine retroviral pathogenesis and immunopathology. Preference will be given to individuals whose area of research provides interaction with other programs of LIP. The selected individual will be provided with a tenured position with a salary ranging from \$77,798 to \$133,600, depending on training and qualification. Funding necessary to establish and maintain an independent research program will be provided. Space, technical, and Postdoctoral Fellow support, supply, budget, and salary are committed. *Applicants must be U.S. citizens or permanent residents.* A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests, and selected publications should be submitted by March 20, 1998, to:

Ms. Joann Martin
National Institutes of Health
31 Center Drive, MSC-2520
Building 31, 7A27
Bethesda, MD 20892
Telephone: 301-496-4634
FAX: 301-496-1940

NIH is an Equal Opportunity Employer.

BIOMEDICAL RESEARCH SCIENTISTS

The Center for Biomedical Research of Oakland University is seeking to recruit Research Scientists with significant research experience in selected biomedical areas including chemical toxicology, computational pharmacology, medicinal chemistry, cellular signal transduction, and bioimaging. A record of research achievement and current NIH funding are required. The successful applicant will have an independent research program complementary to one or more of the current Center members and will have opportunities for direction of research of graduate students and Postdoctoral Fellows, and for collaboration with faculty in the Center. Successful candidates will receive appointments as Senior Research Scientist, Associate Research Scientist, or Assistant Research Scientist in the Chemistry, Biological Sciences, or Physics Department and a secondary appointment as an Investigator in the Center for Biomedical Research, College of Arts and Sciences. Please send curriculum vitae to:

Professor Denis Callewaert, Director
Center for Biomedical Research
Oakland University
Rochester, MI 48309

Oakland University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE BIOCHEMISTRY/NEUROSCIENCE Children's Hospital, Harvard Medical School

A position at the level of Postdoctoral Fellow or Research Associate is available immediately for a Biochemist, preferably with HPLC/FPLC and cell culture experience, to identify growth factors and signal transduction mechanisms involved in nerve regeneration. Two years, \$28,000 to \$35,000 per year. Applicant must have Ph.D. and publication record. Submit résumé, summary of research interests and experience, and forward three letters of reference to: **Dr. L. I. Benowitz, Labs for Neuroscience Research in Neurosurgery, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115.** FAX: 617-730-0636; e-mail: benowitz@al.tch.harvard.edu. *Children's Hospital is an Equal Opportunity Employer.*

Two **POSTDOCTORAL POSITIONS** are available in the area of gene regulation. Our studies involve the developmental and tissue-specific expression of transcription factors involved in lung and erythroid cells and the study of brain and muscle-specific isoforms of the Na,K-ATPase. Candidates should send a letter of interest, curriculum vitae, and names of three individuals who could provide an evaluation to: **Jerry B. Lingrel, Ph.D., Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati, 231 Bethesda Avenue, M.L. 524, Cincinnati, OH 45267-0524.**

Affirmative Action/Equal Opportunity Employer.

RESEARCH TECHNICIAN for N.E. OH Medical Research and Clinic Institute to conduct research in the field of virology, with the goal of improving our understanding of the virus life cycle, using molecular biology techniques, including cloning, mutation, PCR, sequencing, protein expression in procaryotic and eucaryotic cells, hybridization of protein-protein interaction systems in mammalian cells, protein purification, crystallography, western blot, southern blot, in vitro transcription and translation; design experiments according to theoretic mechanisms or models; apply viral techniques, including virion handling, growing, harvesting, purification, titer assays, disruption and virion components separation and purification, viral functional assays, recombinant viral construction; collect data, analyze experimental results, make reports and constructive suggestions using computer programs, such as Word Perfect, Cricket Graph, Gene Works, DNA Strider, Canvas, Adobe Photoshop, Storms & Phosphorescent Imager; Calibrate and modify experimental approaches, protocols, models and working mechanism; manage the lab and train personnel. Applicants will qualify with B.S. in Genetics, Genetic Engineering & 2 yrs exp in the job offered or 2 yrs exp as Bioengineer / Molecular Biologist / Biochemist / Research Assistant / Biologist. 2 yrs exp in related occupations should include all techniques used in job duties. If requested, must be willing to provide copies of degree(s), transcript(s) & letter(s) confirming the required experience. Must have proof of legal authority to work indefinitely in U.S. 40 hrs/wk; 8:00am-5:00pm; Mon-Fri; \$29,500/yr. Send 2 resumes & cover letters (no calls) to ES Sp Prgm, REF# 3371T, Ohio Bureau of Employment Services, PO Box 1618, Columbus OH 43216.

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STAFF SCIENTIST Molecular Carcinogenesis

The successful candidate will drive research projects aimed at identifying molecular targets for anti-cancer therapeutics. Experimental work will involve the use of Affymetrix expression monitoring arrays to dissect biochemical pathways whose alteration results in tumor formation. Genetic and/or biochemical approaches will be used for functional validation. Responsibilities will also include experimental design, implementation, analysis, and publication. You must possess a PhD in Molecular Biology, Biochemistry, Genetics or a related field. Strong interests in cancer biology and technology development are desirable.

For consideration, please mail or fax your resume to: Affymetrix, Human Resources, Job Code J0299, 3380 Central Expressway, Santa Clara, CA 95051; Fax (408) 481-0422; or visit us at www.affymetrix.com. We are an equal opportunity employer.



DIRECTOR MOUNTAIN RESEARCH CENTER

Montana State University - Bozeman invites applications for the position of Director of its Mountain Research Center (MRC). The MRC is an interdisciplinary research center that examines the biosystematics, ecological processes, physical processes, cultural and economic processes, and geographic information systems interfaces in montane systems. The Center is located 60 miles north of Yellowstone National Park and has ready access to several pristine montane environments. The successful candidate must be a dynamic and visionary leader, who has achieved international prominence in a discipline closely related to the mission of the center, and has developed effective relationships within the natural resource/mountain environment research communities. The director should have a sound record in obtaining and maintaining research funding, and a history of successful interdisciplinary cooperation. The director will occupy a tenure-track academic year position in an appropriate department that is affiliated with the MRC.

A description of the Mountain Research Center, and a detailed description of this position, are available on the center's website: <http://www.mrc.montana.edu>. Applicants should send an application letter, a current curriculum vitae, and the names and contact details of at least three references to: **Dr. Bill Costerton, Chair, MRC Search Committee, Center for Biofilm Engineering, Montana State University - Bozeman, 366 EPS Building, P.O. Box 173980, Bozeman, MT 59717-3980.** Screening of applications will begin April 15, 1998. *ADA/EO/AA/Veterans Preference.*



MEDICAL COLLEGE OF WISCONSIN

Postdoctoral Training Opportunities in Developmental and Neural Biology at the Medical College of Wisconsin

- **Growth, Regeneration, and Transcription Factor-Mediated Pathways in:**
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 - Endoderm Regulation of Heart Development—John Lough, Ph.D.
 - Muscle Atrophy and Plasticity—Danny Riley, Ph.D.
- **Molecular, Cellular, and Neural Biology of the Visual System:**
 - Circadian Regulation in Photoreceptors—Joseph Besharse, Ph.D.
 - Gene Expression and Genetics of Color Vision—Jay Neitz, Ph.D.
 - Plasticity in Visual Cortex—Margaret Wong-Riley, Ph.D.
 - Functional MRI of the Visual System—Ted DeYoe, Ph.D.

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Medical College of Wisconsin is situated in a pleasant suburb of Milwaukee, a small city providing large-city amenities with a highly affordable cost of living.

For further details and financial support information: **Phone 414-456-8261, FAX 414-456-6517, or e-mail: lynnt@mcw.edu.**

Interested candidates should send a résumé and a list of references directly to any of the above faculty at:

**Department of Cell Biology, Neurobiology, and Anatomy
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226.**

Applicant must be a permanent resident or citizen of the United States. MCW is an Equal Opportunity Employer.

POSITIONS OPEN

PLANT BIOLOGIST

A temporary two-year position in plant biology is available in the Department of Botany and Range Science at Brigham Young University. Applicants should have a Ph.D. degree in plant biology, plant ecology, or natural resource management and a commitment to excellence in teaching and training of undergraduate students. The successful candidate will be expected to teach three courses per year, including introductory biology and upper-division courses in plant population ecology and evolutionary biology. Opportunity will be available to maintain an appropriate research program. Greatest consideration will be given to candidates with teaching and postdoctoral experience. Academic appointment will be at a level commensurate with experience and prior performance. Review of applications will begin March 15, 1998, and the position will become available September 1, 1998. Request information from: **Dr. Larry St. Clair, Chair, Search Committee, Department of Botany and Range Science, 193 MLBM, Brigham Young University, Provo, UT 84602. E-mail: larry@museum.byu.edu; Telephone: 801-378-4879.**

Brigham Young University, an Equal Opportunity/Affirmative Action Employer, does not discriminate on the basis of race, color, sex, age, national origin, or veteran status, or against qualified individuals with disability. All faculty are required to abide by the standards of the Church of Jesus Christ of Latter-day Saints (LDS). Preference is given to members of the sponsoring church.

The Department of Anesthesia of the University of Pennsylvania seeks a highly qualified non-tenured **RESEARCHER** with background in chemical physics and computer simulations to perform research under general supervision of Principle Investigator, and in close collaboration with diverse experimental groups. Candidates should have demonstrated abilities in carrying independent research, grant and publication writing, computer programming, and visualizations.

Qualifications: Ph.D. in chemistry/physics specialized in computer simulations with related postdoctoral work and experience of five to eight years in biomedical applications. Record of parallel programming on IBM and Cray computers working in Unix and X-Window environments.

Grade and salary commensurate with qualifications.

Contact: **Dr. R. Eckenhoff, Department of Anesthesia, University of Pennsylvania Medical Center, 3400 Spruce Street, Philadelphia, PA 19104-4283.**

POSTDOCTORAL FELLOW

Join a multidisciplinary molecular and cellular neuroscience team in studies of native or recombinant nicotinic acetylcholine receptors. Working in a unique and dynamic institution, investigations will encompass molecular genetic, protein chemical, immunological, and pharmacological approaches. Send curriculum vitae, names and addresses of three references, and a brief statement of research experience, interests, and career objectives to: **R. J. Lukas, Ph.D., Division of Neurobiology, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, 350 West Thomas Road, Phoenix, AZ 85013. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available in molecular hematology. Investigations involve the study of myeloid-specific gene regulation and signal transduction events relevant to myeloid hematopoiesis, leukemogenesis, and the inflammatory response. Projects involve protein purification, gene transduction, and molecular cloning techniques. Backgrounds in molecular biology, gene regulation, and protein chemistry are desirable. *In adherence to NRSA guidelines, the individual must be a permanent resident or U.S. citizen.* Send curriculum vitae and three letters of reference to: **Dr. E. Eklund, 558 Wallace Tumor Institute, University of Alabama at Birmingham, 1824 6th Avenue South, Birmingham, AL 35294. FAX: 205-934-9573. Equal Opportunity Employer.**

RESEARCH POSITIONS IN AVIAN BIOLOGY

Applications are invited for two permanent positions. Applicants should have Ph.D. with at least one year of postdoctoral experience in molecular or cellular biology (one position) or in nutrition and/or whole animal physiology (one position). Send curriculum vitae plus names and addresses of three referees to: **Dr. A. Bar, The Institute of Animal Sciences, ARO, The Volcani Center, P.O. Box 6, Bet Dagan 50250 Israel. E-mail: vlabar@volcani.agri.gov.il. Applicants should be eligible for Israeli citizenship.**

POSITIONS OPEN



POSTDOCTORAL POSITION available immediately at The Scripps Research Institute, La Jolla, California, to study antiviral effects of antibody on HIV-1: neutralization, HIV-1 vaccine design, and animal models (PNAS 94:10018; Nature Med 3:1389). Experience with HIV-1, molecular biology (phage-display), and protein chemistry is preferred. Please send curriculum vitae and names of three references to: **Dr. P. W. H. I. Parren and Dr. Dennis R. Burton, Department of Immunology—IMM-2, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. E-mail: eklahn@scripps.edu.**

The Sanibel-Captiva Conservation Foundation (SCCF) is seeking a **POSTDOCTORAL SCIENTIST** with experience in estuarine ecology to conduct and coordinate research on seagrass-seatout linkages in the Caloosahatchee River estuary system (Tarpon Bay, Pine Island Sound) in southwest Florida. Research would be conducted out of the Tarpon Bay Laboratory of SCCF on Sanibel Island. This one-year position carries a salary of \$30,000 plus fringe benefits. This project is a joint collaborative effort of SCCF, the Florida Center for Environmental Studies, and the South Florida Water Management District. Submit letter of application, curriculum vitae, and names and contacts for three references to: **Dr. Margaret A. Wilzbach, Chair, Postdoctoral Estuarine Search Committee, Tarpon Bay Environmental Laboratory, 900A Tarpon Bay Road, Sanibel, FL 33957. Closing date February 15, 1998. SCCF is an Equal Opportunity Employer.**

MOLECULAR BIOLOGY POSTDOCTORAL FELLOWSHIP UNIVERSITY OF HAWAII Department of Zoology

Position available immediately to apply molecular biological techniques to elucidate gene sequences of epithelial transport proteins. Qualifications: Ph.D. in the biological sciences with demonstrated experience working with RNA and PCR-based techniques. Expression cloning experience also desirable. Appointment for one year with possible extension; salary competitive. Submit résumé with publications and references to: **Prof. Gregory A. Ahearn, Department of Zoology, University of Hawaii, Honolulu, HI 96822 before 15 March 1998. E-mail: ahearn@zoogate.zoo.hawaii.edu.**

Two **POSTDOCTORAL POSITIONS** are available immediately. The first involves developmental neurobiology of the eye in the mouse. Techniques include positional cloning to identify a mutant gene involved in eye development (Zhou et al., *Mamm. Genome* 8:178-181). The ideal candidate should have experience in mouse genetics and genomics. The second position involves protein purification and X-ray crystallography of a human protein related to cataract formation. Project combines molecular biology, biochemistry, and crystallography. Send curriculum vitae and names of three references to: **Dr. Dwight Stambolian, University of Pennsylvania, IHGT, Room 305, 422 Curie Boulevard, Philadelphia, PA 19104. E-mail: stamboli@mail.med.upenn.edu.**

POSTDOCTORAL POSITION to study central nervous system remyelination. *In vivo* and *in vitro* cellular and molecular techniques will be integrated to identify signals mediating proliferation and migration of remyelinating cells in experimentally demyelinated mice in the laboratory of **Dr. Regina C. Armstrong**. Send curriculum vitae to: **Henry M. Jackson Foundation, Human Resources Department, Attention: PL2970403, 1401 Rockville Pike, Suite 600, Rockville, MD 20852. E-mail: hr@mail.hjff.org. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH POSITION

A position is immediately available at the National Center for Toxicological Research (NCTR). DNA adduct formation/repair and cell proliferation/apoptosis will be studied in mouse skin in response to topically applied compounds and solar light. Expertise in molecular biology, cell biology, or DNA adduct quantification are suggested. Mail application to: **Paul C. Howard, Ph.D., HFT-110, National Center for Toxicological Research, 3900 NCTR Road, Jefferson, AR 72079.**

POSITIONS OPEN

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

Position available to study molecular mechanisms responsible for augmenting the CD4+ T lymphocyte response (see *Immunology Today* 18:527, 1997). This project is supported by an NIH grant funded for three years, with the expectation that results obtained will be published in excellent, peer-reviewed journals. Salary will be \$25,000 to \$30,000 per year, commensurate with experience. This position will require immunochemical, lymphocyte culture, and whole animal experimentation, and questions whether it is possible to augment the processing and presentation of immunogens to CD4+ T lymphocytes. The interdisciplinary nature of this project will require an interaction between the Departments of Biochemistry (Dr. Samuel Landry), and Microbiology and Immunology (Dr. Kenneth L. Bost). Send curriculum vitae and the names of three references to: **Dr. Samuel J. Landry, Department of Biochemistry SL 43, Tulane University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112. Applications will be reviewed until position is filled. Equal Employment Opportunity/Affirmative Action Employer. Minorities/Females/Veterans encouraged to apply.**

POSTDOCTORAL POSITION NEUROBIOLOGY DEVELOPMENTAL/MOLECULAR

A position is available for an IRTA Fellow (Ph.D., M.D., or equivalent) to study mechanisms directing cell-specific neuronal migration, using mouse olfactory explants as a model tissue. Applicant will focus on isolation of molecules directing LHRH neurons from olfactory epithelium into the central nervous system. Techniques employed include biochemistry, cell and molecular biology. Applicants should have training in neurobiology, developmental biology, molecular biology, or related field. Salary is commensurate with experience.

Send a curriculum vitae, statement of research interests, and names of references to:

**Dr. Susan Wray
Cellular and Developmental Neurobiology Section
LNC, NINDS, NIH
Building 36, Room 4D-20
Bethesda, MD 20892-4130**

For qualification requirements contact: **NINDS Personnel, Telephone: 301-496-5468. NIH is an Equal Opportunity Employer.**

EXPERIMENTALISTS AND THEORISTS POSTDOCTORAL AND RESEARCH FACULTY Physical Chemistry, Biophysics, and Physics

The Wilson group, at the University of California, San Diego, Department of Chemistry and Biochemistry, has positions available for exceptionally talented scientists in the following areas: ultrafast X-ray diffraction and absorption applied to chemical and biochemical dynamics and function, dynamics of biomolecular and biological processes (including interneuronal communication and function) imaged using ultrafast microscopy, and theoretical studies related to these areas. For more information about these positions and the group, or to receive application process information, visit our website: <http://www-wilson.ucsd.edu>; e-mail: wjgjobops@ucsd.edu. Positions commensurate with experience and qualifications, with salaries based on University of California payscales.

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in biotechnology. Research in amplification methods; DNA diagnostics; mutation detection, and advanced gene mapping methods in complex diseases, e.g., schizophrenia, hypertension, breast cancer; protein engineering for enhanced *in vivo* diagnostics of infection, modified streptavidins, and dense sample arrays. Send curriculum vitae and references to: **Dr. Charles R. Cantor or Dr. Cassandra L. Smith, Center for Advanced Biotechnology, Boston University, 36 Cummings Street, Boston, MA 02215. FAX: 617-353-8501; e-mail: carb@enga.bu.edu.**

POSTDOCTORAL POSITION available to study interactions of antibodies with influenza virus glycoproteins. Candidates should have interest in protein structure. Experience in molecular biology and protein chemistry with virology and/or immunology is desirable. Send curriculum vitae and names of three references to: **Dr. Gillian Air, Department of Biochemistry and Molecular Biology, BMSB 840, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. E-mail: gillian-air@ouhsc.edu.**

Chrysalis DNX Transgenic Sciences,

a leader in providing Transgenic and Gene Targeting capabilities to the biomedical research community, has the following opportunities for research professionals at our Princeton, NJ facility.

Principal Scientist-To manage molecular biology, transgenic and gene targeting research projects. Qualified candidates should have a Ph.D. in molecular biology or related field plus 2-5 yrs post-doctoral exp. developing transgenic and gene targeted animal models. The position requires strong leadership and communications skills in a team environment. Industry exp. preferred.

Research Associate/Microinjectionist- Qualified candidates should have a BS in Biology or related scientific discipline with 3-5 yrs exp. in a core transgenic facility. Extensive experience and proficiency needed in pronuclear microinjection and blastocyst injection for the generation of transgenic and gene targeted animals. Excellent computer and communication skills are required.

Chrysalis emphasizes an atmosphere of collaboration, intellectual honesty and scientific integrity. We offer an excellent work environment with a competitive benefit and compensation package. Please send resume to:



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Pharmacia & Upjohn is among the world's largest pharmaceutical companies. We are research-based and pharmaceutically oriented, working in areas such as Oncology and Infectious, Metabolic, and Central Nervous System diseases. In each of these areas, our objective is the same: to help people live longer and fuller lives.

We are seeking qualified candidates for extended training at the interface of Infectious Disease Discovery Research and Anti-infective Drug Development. This position will be administrated by the Chief Scientific Officer and is specifically targeted for a candidate interested in a career in the pharmaceutical industry. Applicants should have earned an M.D. or Ph.D. (or equivalent) and completed clinical training, preferably with some experience or special interest in clinical infectious disease. Applicants should be fluent in English to allow training in the United States, but those from geographic areas within the global research of Pharmacia & Upjohn (e.g., China, Japan, Canada, South Africa, Middle and South America), as well as Europe and the United States, will be

competitive. Appointments are for a two-year period and will allow for basic research opportunities in anti-infective drug design and clinical experience in antibiotic drug development.

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Or you may e-mail your resume (no attachments, please) to: recruit@am.pnu.com or FAX to 616-833-0550. We are an equal opportunity employer with a commitment to workplace diversity.



Pharmacia & Upjohn

BIOMEDICAL RESEARCH

SAIC Frederick, a division of Science Applications International Corporation and the world's largest employee-owned scientific, technical and engineering services company, is seeking seasoned professionals to join our team at the NCI's Frederick Cancer Research & Development Center located near Baltimore and Washington, DC, in scenic Frederick, Maryland. We are a contemporary biotechnology organization dedicated to the development of knowledge and tools for the diagnosis, treatment and prevention of human cancer and AIDS.

We have many exciting career opportunities available for candidates with education and training in the following areas:

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- Environmental Science
- Computer Science
- Medical/Natural Science
- Chemical Science
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With several colleges nearby and our tuition assistance program, you have the opportunity to continue your education. **SAIC Frederick** offers a salary commensurate with credentials and an attractive fringe benefits program, including insurances, 401(k) savings plan, stock purchase programs, relocation assistance and more.

For consideration, forward CV, references and salary requirements to: **SAIC Frederick**, NCI-FCRDC, ATTN: Barbara J. Norton-Gill, Technical Recruiter, PO Box B, Frederick, MD 21702-1201; e-mail: hr@mail.ncifcrf.gov. EOE, M/F/D/V.

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POSTDOCTORAL FELLOWSHIP

Available in the laboratory of Dr. **David Dichek** to pursue NIH-funded research in vascular biology and gene therapy. The position requires expertise in animal (or human) surgery and experience or a strong aptitude for and interest in molecular biology and biochemistry. See *JCI* 96:2955 and *Nature Medicine* 2:293. M.D. and/or Ph.D. required. Job #C98-003.

Please send CV and references to:
Gladstone Institutes, P.O. Box 419100,
San Francisco, CA 94141;
or fax to (415) 431-4039.
Email: hr@gladstone.ucsf.edu
Web: <http://gladstone.ucsf.edu>

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Employer**

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN HUMAN CANCER GENETICS THE OHIO STATE UNIVERSITY

Positions are open for Postdoctoral Research Fellows in an expanding Human Cancer Genetics Program at The Ohio State University, Columbus, Ohio, United States of America. The program is part of the NCI-designated Comprehensive Cancer Center and the Arthur G. James Cancer Hospital and Research Institute. Research interests comprise all areas of human cancer genetics, mainly the mapping, cloning, and characterization of new cancer genes, including modifying genes and genes with low penetrance; the elucidation of the role of these genes in carcinogenesis; and gene therapy. Moreover, thanks to an existing clinical cancer genetics branch of the program, clinical, epidemiologic, and population aspects of cancer predisposition are targeted areas of research. One of two positions are open immediately, others in 1999. Applications and inquiries should be sent to the Program Director, **Dr. Albert de la Chapelle**, at the address shown below:

Albert de la Chapelle, M.D., Ph.D.
Professor and Director
Human Cancer Genetics
Comprehensive Cancer Center
The Ohio State University
Medical Research Facility, Room 435
420 West 12th Avenue
Columbus, OH 43210
Telephone: 614-688-4781
FAX: 614-688-4772
E-mail: delachapelle-1@medctr.osu.edu

SENIOR STAFF FELLOW

Federal Drug Administration, Center for Biologics Evaluation and Research invites applications for a Fellowship position in the Laboratory of Cell and Viral Regulation, starting immediately. Candidate will conduct mission-related research on the role of cell surface molecules and soluble mediators in HIV-1 infection, and evaluate marketed biologic products, investigational new drugs, and product applications. Candidates should have a broad background in molecular and cellular immunology, biochemistry, and virology. Required: experience in analysis of chemokines, proteoglycans, monoclonal antibody production, and FACS analysis and cell sorting. Candidates will carry out regulatory review and should be knowledgeable in the safety/efficacy of hematologic products, and will be expected to effectively communicate with government/industry officials of the scientific/academic communities. Required: Ph.D. (or equivalent) and at least five years of professional-level, postdoctoral experience. Salary commensurate with experience. Send curriculum vitae, bibliography, statement of research interests, future goals, transcripts, names of three references to: **S. Lucero, 1401 Rockville Pike HFM-123, Rockville, MD 20852-1448** by close of business February 30, 1998. *U.S. citizenship required.*

POSTDOCTORAL RESEARCH SPECIALIST II POSITION

Postdoctoral Research Specialist II position available to study blood-brain barrier pharmacology, using a combination of *in vivo*, *ex vivo*, and *in vitro* approaches. Experience with *in vivo* and/or cell culture models is preferred. A Ph.D. in pharmaceuticals, pharmacology, or a related discipline is required. To apply contact: **Kathy Leitch, Department of Human Resources, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-2818; FAX: 803-792-2263.** When applying, reference position number 128849. For any additional information, please contact: **Pam Golden, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy, Medical University of South Carolina, Charleston, SC 29425-2303. FAX: 803-953-6615; e-mail: goldenpl@musc.edu.**

Affirmative Action/Equal Employment Opportunity.

POSTDOCTORAL POSITIONS are available to study: (1) signal transduction-related regulation of DNA topoisomerase II in anticancer drug resistance; (2) mechanisms of genotoxicity related to free radical activation of the anticancer agent etoposide. A background in molecular biology and/or free radical biochemistry is desirable. Send a curriculum vitae and the names of three references to: **Jack C. Yalowich, Ph.D., Department of Pharmacology, University of Pittsburgh School of Medicine, Biomedical Sciences Tower W1355, Pittsburgh, PA 15261. E-mail: yalowich+@pitt.edu.**

POSITIONS OPEN



POSTDOCTORAL POSITIONS

Positions are available for a **BIOPHYSICIST** and a **BIOCHEMIST** to work on structurally defined engineered channel proteins. The Biophysicist will do planar bilayer recordings and carry out various spectroscopic experiments (CD, fluorescence, mass spectrometry). The Biochemist will be engaged with the molecular genetics and protein chemistry of the channel proteins. Recent papers include: *Chemistry & Biology* 2:391, 1995; *EMBO J.* 15:1857, 1996; *Nature Biotechnology* 14:852, 1996; *Science* 274:1859, 1996; *Nature Biotechnology* 15:278, 1997; *Chemistry & Biology* 4:497, 1997; *Biochemistry* 36:9518, 1997; *Proc. Natl. Acad. Sci. USA* 94:11607, 1997. For a review see: *Scientific American* (Sept.) 62-67, 1997.

Send your curriculum vitae and up to three letters of reference to: **Hagan Bayley, Professor and Head, Department of Medical Biochemistry and Genetics, Texas A&M Health Science Center, 440 Reynolds Medical Building, College Station, TX 77843-1114. E-mail: bayley@tamu.edu.**

Find out more about Texas A&M at website: www.tamu.edu and our Department at website: pauling.tamu.edu.

Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN HEMATOPOIESIS

A Postdoctoral position is immediately available to investigate the role of novel human bone marrow stromal cell adhesion molecules in normal and leukemic hematopoiesis (*Blood* 83:2399-2409, 1994; *J. Immunol. Methods* 176:No. 2, 185-201, 1994; *Blood* (supplement 1) 86:309a, 1995). Applicants should have a recent Ph.D. degree with a strong background and experience in cell culture, protein biochemistry, recombinant DNA technology, as well as hybridoma and/or phage display methods. Please send curriculum vitae, a brief statement of research interests, and three letters of recommendation to: **Dr. Beerelli Seshi, Department of Pathology, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, 12902 Magnolia Drive, Tampa, FL 33612. FAX: 813-632-1708; e-mail: bseshi@com1.med.usf.edu.**

POSTDOCTORAL POSITIONS IN PROTEIN BIOCHEMISTRY AND CELL BIOLOGY

Postdoctoral positions available immediately to study mechanisms controlling the activity and cellular localization of sialyltransferase enzymes responsible for the synthesis of carbohydrate structures that play critical roles in development and disease. Applicants should be recent Ph.D. graduates with expertise in protein biochemistry and cell and molecular biology. Send curriculum vitae and names of three references to: **Dr. Karen Colley, Department of Biochemistry and Molecular Biology, University of Illinois College of Medicine, 1819 West Polk Street, M/C 536, Chicago, IL 60612. FAX: 312-413-0364; e-mail: karen@uic.edu.** *University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION in developmental biology is available immediately to study the role of Wnt/Wingless signal transduction in patterning the *Drosophila* embryo. Studies focus on cellular response to mutant forms of Wg (see Hays et al., *Development* 124:3727-3736, 1997) and on newly identified molecules that interact with the Wg signaling pathway. Please send curriculum vitae and names of three references to: **Dr. Amy Bejsovec, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, 2153 Sheridan Road, Evanston, IL 60208-3500. FAX: 847-467-1380.**

POSTDOCTORAL POSITIONS

Two positions are available immediately to study mechanisms of hsp70 mRNA stability and stress tolerance in mammalian cells. Background in molecular biology is required. Send curriculum vitae and three reference names to: **Antonio De Maio, Ph.D., 720 Rutland Avenue, Ross 746, Baltimore, MD 21205. FAX: 410-502-5093; e-mail: ademai@welchlink.welch.jhu.edu.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE POSITION AVAILABLE IMMEDIATELY

Postdoctoral Research Associate position available immediately for recent (within two years of receipt of degree) Ph.D. or M.D.-Ph.D. graduate in cellular or molecular biology with an interest in lipid-mediated signal transduction. The project involves the identification of the receptor for a monohydroxy fatty acid metabolic product of arachidonic acid which has been demonstrated to regulate tumor cell metastasis. The project involves the cloning of the receptor as well as the study of downstream signaling effectors in tumor cells. This work involves state-of-the-art molecular and cellular biological techniques. Successful candidates should have demonstrated experience with standard molecular biology and cell biology techniques. Previous experience with receptor isolation or signal transduction is desirable. Preference will be given to candidates with demonstrated research ability and strong written communication skills. Minimum salary \$28,000 dependent upon experience. Please send a brief statement of research interests, capabilities, and goals; curriculum vitae; addresses, FAX/telephone numbers, and three references to: **Dr. Kenneth V. Honn, Professor, re: Lipid Mediated Signal Transduction, 431 Chemistry Building, Wayne State University, Detroit, MI 48202. E-mail: k.v.honn@wayne.edu.**

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PROTEIN CRYSTALLOGRAPHY HARVARD INSTITUTES OF MEDICINE

Funded research positions are available immediately at the **POSTDOCTORAL** and **JUNIOR FACULTY** levels to work in a newly established Macromolecular Crystallography Unit, at the Harvard Institutes of Medicine. The Unit is equipped with state-of-the-art data collection and molecular modeling facilities. Ongoing projects include the structural analysis of signal transduction proteins, transcription factors, and HIV-1-related proteins. Experience in protein crystallization and X-ray crystallography is required.

Send curriculum vitae and three reference letters to: **Dr. John A. A. Ladias and Dr. Jerome E. Groopman, Department of Medicine, Harvard Institutes of Medicine, Room 354, 4 Blackfan Circle, Boston, MA 02115. FAX: 617-975-5241; e-mail: jladias@west.bidmc.harvard.edu.**

An NIH-supported **POSTDOCTORAL POSITION** is available immediately to study the regulation of hepatic bile acid transport gene expression. Ongoing projects include identification and cloning of novel liver-specific transcription factors (*JBC* 271:15211, 1996), and molecular mechanisms of cytokine regulation of hepatobiliary transporters. Applicants must have a Ph.D. in cellular/molecular biology, biochemistry, or related field. *U.S. citizenship or permanent residency required.* Send a curriculum vitae, names and addresses of three references to: **Saul J. Karpen, M.D., Ph.D., Department of Pediatrics, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520. Yale University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS (TWO) AVAILABLE IMMEDIATELY ROCKEFELLER UNIVERSITY New York, New York

Recent M.D., Ph.D., or M.D.-Ph.D. with strong background in molecular biology and/or biochemistry to study anti-inflammatory drugs and colon carcinogenesis. Curriculum vitae and list of references to: **Dr. Steven J. Shiff, The Rockefeller University, 1230 York Avenue, Box 330, New York, NY 10021-6399. FAX: 212-327-7453; e-mail: shiffs@rockvax.rockefeller.edu.**

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. University of Pennsylvania, Department of Neuroscience. Position is available to join the "retina group" to study chemical architecture in retina. Specific projects include identification, localization, and function of connexins and G-proteins. Methods to be used: RT-PCR of single cells, light- and electron-immunocytochemistry, and physiology. Molecular background is required. An excellent opportunity to learn signal transduction in retina. Contact: **Noga Vardi, Telephone: 215-898-4520; e-mail: noga@retina.anatomy.upenn.edu; Peter Sterling, Telephone: 215-898-9228.**

Merck KGaA**Darmstadt / Germany****Decisions for life**

are taken at an early stage when we introduce innovative pharmaceutical products in today's market. Improved living conditions and enhanced quality of patient life are our daily goals and they can also be yours if you join us as **Laboratory Manager** in our **Biomedical Research division** (stroke/neuroprotection).

Supported by your team, you will carry out a wide range of investigations on animal models of cerebral ischaemia, as part of the preclinical characterization of pharmaceutical substances. Your specialist input will be used to support and control progress in current research projects, to formulate new concepts and to establish and validate new in vivo animal models.

For this demanding position you should have a doctorate in human or veterinary medicine. Furthermore you are experienced with operations and possess a sound knowledge of pharmacology and biochemistry. As fundamental requirement we demand a deep interest in scientific work on practical pharmacological questions. Your approach should stress problem-solving, decision-making and strong leadership.

Does this demanding profile match your ambitions for your future career? Then make your decision and



send us your complete application documents. If you have any questions, do not hesitate to contact Dr. Seyfried (tel. 0049/6151/72-2982). He will be pleased to answer your questions. Merck KGaA · Human Resources Pharma R & D · 64271 Darmstadt/Germany · Internet: <http://www.merck.de>

**HARVARD MEDICAL SCHOOL**
PROFESSOR OF PATHOLOGY
Dana-Farber Cancer Institute,
Harvard Medical School

The Dana-Farber Cancer Institute and Harvard Medical School invite applications for a Professor of Pathology to serve in the Department of Immunology/AIDS at Dana-Farber Cancer Institute. Candidates must have an active research program in some aspect of Immunology/AIDS and are expected to provide leadership in Immunology. The appointed candidate will also be expected to make a commitment toward the teaching of both medical students and graduate students. Applicants must have a Ph.D. and/or M.D. degrees and a minimum of ten years of research and/or teaching experience.

Candidates should provide a curriculum vitae and statement of research interests to:

Professor of Pathology
Search Committee,
c/o Drs. Abul Abbas and Frederick Alt,
Division of Immunology,
Brigham and Women's Hospital,
221 Longwood Avenue, LMRC 521,
Boston, Massachusetts 02115.

Dana-Farber and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Qualified women and minorities are encouraged to apply.



EUROPEAN OPPORTUNITIES

**UNIVERSITY COLLEGE LONDON**
Centre for Cardiopulmonary
Biochemistry & Respiratory Medicine
Postdoctoral & Technician Positions in
Lung Matrix Research

The Centre for Cardiopulmonary Biochemistry and Respiratory Medicine (CCBRM) at UCL is comprised of a dynamic team of scientists and physicians investigating the regulation of extracellular matrix protein deposition in relation to fibrosis and normal wound healing. A Wellcome Programme Grant and an MRC Project Grant, awarded to Professor G J Laurent and his colleagues, will allow us to further develop this area making three key appointments.

Senior Research Fellow (RA1A)/Lecturer (5 years)

Studies will be performed to investigate the molecular genetics of fibrotic disorders. This appointment will involve collaboration with the Centre for Cardiovascular Genetics (Director: Professor Steve Humphries) which has a strong record of molecular genetics. The successful candidate will be encouraged to develop their own team within the Centre.

Research Fellow (RA1A)/Lecturer (3 years)

This appointment will involve collaboration with Dr Steve Mutsaers and others in the CCBRM and Dr Jurgen Roes in the Centre for Molecular Medicine (Director: Professor Tony Segal) employing "knockout" animals to investigate the pathogenesis of emphysema. The candidate should have a background in respiratory research and experience in working with animal models of disease. The successful candidates for both post-doctoral positions should have strong CVs, be able to work independently and enjoy presenting their work at international meetings.

Research Technician (Technician E) (5 years)

A bright and enthusiastic scientist, with experience in biochemistry, cell biology or cell signalling is required to interact with senior staff involved with the new programme, grant, including Drs R J McNulty, R C Chambers, R P Marshall and the newly appointed Senior Research Fellow/Lecturer (see above). This person will also be expected to perform general laboratory duties and help supervise a part-time technician. We expect the appointee to be fully involved in the programme and contribute widely to the productivity of the Centre.

Applications with a full CV and short covering letter, (maximum one A4 page) outlining suitability for the relevant post, should reach Mrs Jenny Connolly (Administrator, Centre for Cardiopulmonary Biochemistry and Respiratory Medicine, UCL, Rayne Institute, 5 University Street, London WC1E 6JJ; telephone: 0171 209 6975 or fax: 0171 209 6973 by 20 February 1998. (Website address: <http://www.ucl.ac.uk/respiratory-medicine/>). Interviews will be held in March.

Working toward Equal Opportunity

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE POSITION AVAILABLE IMMEDIATELY

Postdoctoral Research Associate position available immediately for Ph.D. or M.D.-Ph.D. graduate in cellular or molecular biology with an interest in integrin receptors and tumor cell metastasis. The project involves the study of a newly isolated and novel form of the $\alpha 1 \text{b}$ receptor. The study will place emphasis on prostate cancer and cancer metastasis in general. Successful candidates should have demonstrated experience with standard molecular biology and cell biology techniques. Previous experience with integrin biology is desirable. Preference will be given to candidates with demonstrated research ability and strong written communication skills. Minimum salary \$28,000 dependent upon experience. Please send a brief statement of research interests, capabilities, and goals; curriculum vitae; addresses, FAX/telephone numbers, and three references to: **Dr. Kenneth V. Honn, Professor, re: Integrin Receptors, 431 Chemistry Building, Wayne State University, Detroit, MI 48202. E-mail: k.v.honn@wayne.edu.**

Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smoke-free. Wayne State University—people working together to provide quality service.

POSTDOCTORAL POSITION

We are soliciting applications from highly motivated individuals for a Postdoctoral position in the University of Michigan Comprehensive Cancer Center and Department of Dermatology. The laboratory is focused on two interrelated projects: the elucidation of signal transduction alterations in basal cell carcinoma and the molecular regulation of skin appendage morphogenesis. Candidates are expected to have a solid foundation in basic molecular and cell biology techniques, with additional experience in signal transduction or vertebrate development highly desirable. Applicants should send a curriculum vitae, letter of interest, and the names of three references to: **Dr. Andrzej Dlugosz, University of Michigan Comprehensive Cancer Center and Department of Dermatology, 3310 CCGC, Box 0932, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0932. E-mail: dlugosza@umich.edu. Equal Opportunity/Affirmative Action.**

POSTDOCTORAL POSITIONS available immediately to study the intracellular signal transduction pathways that modulate mRNA translation and their roles in controlling cell growth and division. Current emphasis is on the novel signaling pathway targeted by the drug rapamycin, an immunosuppressant that arrests the cell cycle of a variety of cells. Background in molecular biology, biochemistry, or cell biology preferred. Send curriculum vitae and names of three references to: **David M. Sabatini, M.D., Ph.D., Whitehead Institute, 9 Cambridge Center, Cambridge, MA 02142. E-mail: sabatini@wi.mit.edu; FAX: 617-258-6505.**

POSTDOCTORAL POSITION available to study intracellular transport of polymeric Ig receptor using cellular, molecular, and biochemical approaches. Recent Ph.D. with experience in molecular/cell biology, protein-protein interaction, and interest in vesicular traffic or mucosal immunology preferred. Send curriculum vitae, statement of research experience, and names of three references to: **Dr. M. E. Lamm or Dr. S. W. Pimpliker, Institute of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106-2622. E-mail: swp@po.cwru.edu. Equal Opportunity Employer.**

POSTDOCTORAL POSITION in immunology. Available immediately to study murine NK cells, with emphasis on their interactions with MHC molecules. Experience in molecular techniques highly desirable. Send curriculum vitae and names of three references to: **Dr. I. Nakamura, Department of Pathology, State University of New York at Buffalo, 204 Farber Hall, Buffalo, NY 14214. FAX: 716-829-2086; e-mail: inakamur@acsu.buffalo.edu.**

HARVARD MEDICAL SCHOOL

POSTDOCTORAL POSITIONS to study molecular embryology of heart development and other problems in vertebrate organogenesis. Please send curriculum vitae and names of two references to: **Thomas Schultheiss, Molecular Medicine RW663, Beth Israel Hospital, Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215.**

POSITIONS OPEN

ACNP/GLAXOWELLCOME FELLOWSHIP IN CLINICAL NEUROPSYCHOPHARMACOLOGY

The American College of Neuropsychopharmacology (ACNP) is pleased to announce the ACNP/GlaxoWellcome Fellowship in Clinical Neuropsychopharmacology to be awarded on or after August 1, 1998. This Fellowship is intended to provide an intellectual environment for a Clinical Specialist to acquire formal instruction, knowledge, and skills to pursue a career in clinical neuropsychopharmacology. The goal of the ACNP/GlaxoWellcome Fellowship in Clinical Neuropsychopharmacology is to select individuals for training in targeted areas, including an in-depth knowledge of pharmacologic mechanisms and principles of pharmacokinetic and pharmacodynamic modeling as well as a working knowledge of the principles of biostatistics, clinical trial methodology, pharmacoeconomics, drug interactions, and the ethics of clinical research. This should result in physician scientists who can move between molecular mechanism-based research and clinical studies to assess therapeutic potential. Applicant must be a physician in North America who has had the appropriate training to apply for certification by a primary medical specialty and is eligible for licensure at the proposed training site. Since this Fellowship is intended as a career development step, the applicant cannot have attained the rank of Assistant Professor or higher in any of the disciplines (fields) central to neuropsychopharmacology. Completed applications must be received before May 31, 1998. For more information and application forms, write or FAX to:

**ACNP Secretariat
ACNP/GlaxoWellcome Fellowship
320 Centre Building
2014 Broadway
Nashville, TN 37203
FAX: 615-343-2069**

POSTDOCTORAL POSITION NEUROGENETICS, MOLECULAR BIOLOGY, AND NEUROPHARMACOLOGY

The Brain Function Research Institute (BFRI) is seeking laboratory staff to join fundamental research of dementia and related brain disorders. BFRI was newly founded in 1997 and is supported by the government. The main project is to make fundamental research for developing new antedementia drugs. Positions are available for individuals with Ph.D. in biochemistry or related field with experience in protein chemistry and/or molecular biology and interest in brain cell damage. BFRI offers a reasonable salary. For additional information, please contact: **The Brain Function Research Institute, Executive Director: Tohru Sawada, M.D., Ph.D., c/o National Cardiovascular Center, 5-7-1 Fujishirodai, Suita, Osaka 565 Japan. Telephone: +81-6-834-7646; FAX: +81-6-872-8761.**

POSTDOCTORAL POSITION immediately available to work on the molecular pathogenesis of autoimmune blistering disease of skin and mucous membranes. Work focuses on the identification, purification, cloning, and expression of novel proteins. Experience in molecular and cellular biology is required. Background in immunology preferred. Send curriculum vitae and name and address of three references to: **Dr. A. Razzaque Ahmed, The Center for Blood Research, Harvard Medical School, 800 Huntington Avenue, Boston, MA 02115. FAX: 617-278-3493.**

POSTDOCTORAL POSITION is available to determine X-ray crystal structures of metal-requiring enzymes in critical biosynthetic pathways (e.g., see: *PNAS* 93:13589, 1996; *Nature* 383:554, 1996; *Science* 277:1820, 1997). Proficiency in protein biochemistry and crystallography required. Send curriculum vitae and the names of three references to: **Prof. David W. Christianson, Roy and Diana Vagelos Laboratories, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323 by February 28, 1998.**

POSTDOCTORAL POSITIONS available for two projects: (1) molecular analysis of cytoplasmic male sterility in carrot; (2) molecular and biochemical analyses of Fusarium resistance in asparagus. For further information consult website: www.uoguelph.ca/~dwolyn. Send curriculum vitae and names of three references to: **Dr. D. Wolyn, Department of Horticultural Science, University of Guelph, Guelph, Ontario N1G 2W1 Canada. FAX: 519-767-0755; e-mail: dwolyn@evbhort.uoguelph.ca.**

POSITIONS OPEN

A **POSTDOCTORAL FELLOWSHIP** is available in the Department of Neurology at the University of Vermont College of Medicine. Support is provided for research on the mechanisms underlying lower urinary tract plasticity (neurochemical, organizational, morphological) following chronic spinal cord injury or bladder inflammation. The roles of neurotrophic factors following injury/dysfunction are investigated. Experience in the synthesis of riboprobes and publications involving *in situ* hybridization techniques required. Applicants must have strong motivation and excellent communication skills. Funding is available for two years with future funding dependent on laboratory funding. A start date on or before August 1998 is required. Applicants should send a curriculum vitae and bibliography, names and addresses of three references, and a letter describing their training and interests to: **Margaret A. Vizzard, Ph.D., University of Vermont, Department of Neurology, E219 Given, Burlington, VT 05405. Telephone: 802-656-3209; e-mail: mvizzard@zoo.uvm.edu.**

POSTDOCTORAL RESEARCH positions immediately available to study the neurochemistry/neuropharmacology of primate/human brain dopamine systems using interdisciplinary methods. Projects: molecular mechanisms of dopamine transporter function, molecular pharmacology of cocaine addiction, radio-receptor/dopamine uptake assays, autoradiography, receptor/effector coupling. Requirements: creative ability to work independently or in team environment; background in brain dopamine systems and/or biochemical methods; Ph.D. or M.D.-Ph.D.; U.S. citizenship or permanent residency. Send curriculum vitae (including three references) to: **Bertha K. Madras, Ph.D., Harvard Medical School, NERPRC, 1 Pine Hill Drive, Southborough, MA 01772-9102. E-mail: bmadras@warren.med.harvard.edu; FAX: 508-624-8166. Harvard University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available for a recent Ph.D. in molecular microbiology or related field to study the role of envelope proteins in virulence of the obligate intracellular bacterial pathogen, *Chlamydia trachomatis*. Experience in standard molecular biology techniques and protein analysis is required. Some expertise in tissue culture is preferred. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Jane E. Raulston, Ph.D., Department of Microbiology and Immunology, University of North Carolina School of Medicine, 804 M. E. Jones Building, CB #7290, Chapel Hill, NC 27599-7290. Women and minorities are encouraged to apply and to identify themselves. The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION MOLECULAR BIOLOGY

Position available at the **RESEARCH ASSOCIATE** level for a Ph.D. to study the role of the stress response as a mediator of human health and disease. The individual will use RT-PCR and other molecular biological methods to analyze human tissues and derived cell cultures and instruct pathology residents in molecular methods. The position does not require animal experimentation. Send curriculum vitae and names of three references to: **Dr. Mary Ann Sens, Chair, Department of Pathology, West Virginia University, P.O. Box 9203, Morgantown, WV 26506-9203. FAX: 304-293-6249; e-mail: msens@wvu.edu.**

POSTDOCTORAL ASSOCIATE

Three-year position available immediately at Fox Chase Cancer Center, an NCI-designated Comprehensive Cancer Center, to study the tuberous sclerosis tumor suppressor genes. Strong background in molecular and cell biology required. Please send curriculum vitae and names of three references to: **Dr. Elizabeth Henske, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: ep_henske@fccc.edu. Equal Opportunity Employer.**

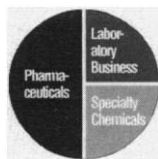
Three-year **POSTDOCTORAL RESEARCH** position available July 1998 at the National Institutes of Health in Phoenix, Arizona, to identify and characterize type 2 diabetes susceptibility genes. Experience in molecular biology required. Send curriculum vitae and a summary of relevant experience to: **Dr. Leslie Baier, Clinical Diabetes and Nutrition Section, NIDDK, NIH, 4212 North 16th Street, Phoenix, AZ 85016. FAX: 602-200-5225.**

Merck KGaA**Darmstadt / Germany****Biomedical Research**

Merck KGaA is an international pharmaceutical company with a long-term commitment to innovative research. In order to ensure our innovative power and research quality, the Biomedical Research Division is looking for a qualified **Postdoctoral Research Scientist** to support our research activities in the field of **gene expression and protein-protein interaction** for a three-year period.

The main focus of this position is protein-protein interaction. You will develop and establish two-hybrid systems and explore additional technologies to identify novel protein functions which lead into screen development. Close collaboration with other scientists outside of the company is an additional important aspect of this position.

A PhD in biology or biochemistry is required, supplemented by extensive knowledge of molecular biology. Apart from a strong background in mammalian cell biology you possess solid experience in expression and generation of libraries. Practical experience in two-hybrid technologies is required. With a teamorientated personality you show great interest working in a friendly and stimulating environment.



If you match our expectations and wish to fulfill your scientific ambitions within a competent and motivated team, please forward your complete application to Merck KGaA, Human Resources Pharma R&D, 64271 Darmstadt/Germany. For further information please contact Dr. Strittmatter (e-mail: stritmat@merck.de) or visit us on our homepage (<http://www.merck.de>).

EUROPEAN OPPORTUNITIES

**UNIVERSITY OF
OXFORD**

in Association with St Peter's College
Department of Zoology

**University Lecturership
in Zoology (Ecology)**

Applications are invited for the above post, tenable from 1 October 1998 or as soon as possible thereafter. Stipend according to age on the scale £16,045 - £29,875 per annum. The successful candidate may be offered a fellowship at St Peter's College in which case the combined university and college salary would be according to age on a scale up to £35,754 per annum.

Candidates will be expected to have an active research programme with particular interests in either molecular ecology, experimental or field orientated ecological research, evolutionary ecology or conservation biology. A keen interest in undergraduate and postgraduate teaching is expected.

Further written particulars containing details of the duties and the full range of emoluments attaching to both the university and college posts can be obtained from Professor R M Anderson, Department of Zoology, University of Oxford, Oxford OX1 3PS (telephone 01865 271277; fax 01865 271136) to whom completed applications (8 typed copies, or one from candidates overseas), containing a c.v., a list of publications and statement of research, and the names of three referees should be sent by 30 April 1998. Candidates will be notified if they are required for interview.

The University is an Equal Opportunities Employer.

GLOBAL OPPORTUNITIES

**The Victor Chang**

CARDIAC RESEARCH INSTITUTE

SYDNEY, AUSTRALIA

Faculty Position

The Institute is seeking an outstanding researcher for a faculty position at the Associate- or Full-Member Level. Applicants will be expected to hold a PhD, MD, or both with relevant postdoctoral training, and to have developed a recognised, well-funded research program. The Institute will provide a strong package to allow a dynamic research program to be established rapidly. Candidates with a distinguished record of research in any area of cardiovascular science will be given serious consideration, although those with programs in *molecular genetics*, *gene therapy* or *transplantation biology* are particularly encouraged to apply.

In addition to continuing a high-quality individual and interactive research program, the appointee will have responsibility for further developing the programmatic research interests of the Institute in the molecular basis of cardiovascular biology and disease, and in training postgraduate students in molecular cardiology. This is an exceptional opportunity for a leadership position in a thriving and growing institute committed to excellence in cardiovascular research. The VCCRI is affiliated with the University of New South Wales, Australia. Applicants should send a curriculum vitae, short description of research plans and the names of at least three referees to:

Professor Robert M Graham,
Victor Chang Cardiac Research Institute,
384 Victoria Street, Darlinghurst, Sydney, NSW 2010, Australia.
Tel: 61-2-9295 8500 Fax: 61-2-9295 8501
or e-mail: b.graham@victorchang.unsw.edu.au

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POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available immediately with an active cryo-electron microscopy/3-D image reconstruction group at the Crump Institute for Biological Imaging at the UCLA School of Medicine. The project is a collaborative effort with Merck & Co., Inc. to study human papillomavirus. The ideal candidate will have a Ph.D. and experience in either electron microscopy or image processing. The laboratory is equipped with a Philips CM120 cryo-electron microscope, Gatan slow-scan CCD camera, and several DEC alpha workstations.

Send a curriculum vitae, publication list, and the names, addresses, and telephone numbers of three scientists from whom letters of recommendation can be obtained to:

Dr. Phoebe L. Stewart
UCLA School of Medicine
Department of Molecular and Medical Pharmacology
A-324 CIBI, Box 951770
Los Angeles, CA 90095-1770
FAX: 310-206-8975

POSTDOCTORAL POSITIONS with Dr. Anson Lowe to study the cell biology and diseases associated with the exocrine pancreas or with Dr. M. Bishr Omary to study the regulation, function, and disease association of keratin intermediate filaments and their associated proteins in simple-type epithelia. A Ph.D. or M.D. with experience in biochemistry, cell or molecular biology is required. Send your applications to: A. Lowe or B. Omary, Stanford University, MSLS Building, Room P304, Stanford, CA 94305-5487. FAX: 650-723-5488. Stanford University is an Equal Opportunity/Affirmative Action Employer.

Two **POSTDOCTORAL POSITIONS** are available in protein chemistry or protein NMR. One position requires proven skills in PCR, mutagenesis, protein expression, and purification. The other requires experience with multidimensional NMR of macromolecules. Minimum salary \$24,000 plus benefits. Additional information, website: <http://heme.chem.wsu.edu>. Contact: James Satterlee, Chemistry Department, Washington State University, Pullman, WA 99164-4630. E-mail: hemeteam@cosy.chem.wsu.edu; Telephone: 509-335-8620.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE CASE WESTERN RESERVE UNIVERSITY

Postdoctoral position available immediately to study immunology of bacterial polysaccharides. Humanized murine model will be utilized to investigate the role of IgG subclass in protective immunity to encapsulated bacteria such as *pneumococcus*. Position requires background and experience in immunology, molecular biology, cell culture, and monoclonal antibodies. Send curriculum vitae and names of three references to: Dr. John Schreiber, Department of Pediatrics, Division of Infectious Diseases, Rainbow Babies and Children's Hospital, 11100 Euclid Avenue, Cleveland, OH 44106. FAX: 216-844-8362; e-mail: jrs3@po.cwru.edu.

POSTDOCTORAL POSITION

Postdoctoral position available immediately to investigate the mechanisms that lead to reprogramming of differentiated skeletal cells induced by the intracellular nematode *Trichinella spiralis*. Interest in parasitology with experience in cell or molecular methodologies is highly desirable. Send curriculum vitae and names of three references to: Douglas P. Jasmer, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164-7040. FAX: 509-335-8529; e-mail: djasmer@vetmed.wsu.edu. Wayne State University is an Equal Employment Opportunity/Affirmative Action Educator and Employer. Protected groups are encouraged to apply.

BACTERIAL VACCINES

A **POSTDOCTORAL POSITION** for USDA-funded study is available immediately to work on an experimental *Campylobacter* vaccine using an avirulent *Salmonella* expression system. Experience in microbiology and molecular biology required. Send curriculum vitae and names of three references to: Dr. Irving Nachamkin, Pathology and Laboratory Medicine, University of Pennsylvania, 4 Gates Building, 3400 Spruce Street, Philadelphia, PA 19104-4283. Telephone: 215-662-6651; FAX: 215-662-6655; e-mail: nachamki@mail.med.upenn.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS AVAILABLE

The Center for Insect Science, through a training grant from the National Institutes of Health, is offering two Postdoctoral Fellowships on the interface between molecular biology and the biochemistry, physiology, neurobiology, genetics, and ecology of insects. Highest priority will be given to applicants working in areas with relevance to human health. Appointments are for two years, depending on availability of funds and satisfactory performance. In addition to a stipend, Fellows will receive funds to support their research. Fellows will be encouraged to develop their own ideas in an atmosphere that is supportive, but that demands independent thinking and collaboration with colleagues. Applicants must have a Ph.D. degree, and according to the terms and conditions of the grant, must be U.S. citizens, noncitizen nationals, or permanent residents. Candidates with previous NRSA support should note the statutory limitation of three years total aggregate support. Application deadline: March 16, 1998, or until positions are filled.

To apply, please send an introductory cover letter with a statement of research interests, curriculum vitae, and names of three references to: Dr. Leslie P. Tolbert, Chair, Search Committee, Center for Insect Science, The University of Arizona, 225 Life Sciences South, P.O. Box 210106, Tucson, AZ 85721-0106. Applications from women and members of minority groups are particularly encouraged. The University of Arizona is an Affirmative Action/Equal Employment Opportunity/ADA Employer.

Applicants are invited for a **POSTDOCTORAL FELLOW** position on the molecular biology of central nervous system neurodegeneration and Alzheimer's disease. Candidates with experience with the construction and evaluation of transgenic mice are encouraged to apply. The research is for creative and productive thinkers able to work independently. Please send curriculum vitae and the names of three references familiar with your work to: Dr. Nikos K. Robakis, Mount Sinai School of Medicine, Box 1229, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-831-1947; e-mail: robakis@smtpink.mssm.edu. We are an Equal Opportunity Employer fostering diversity in the workplace.

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POSITIONS OPEN

POSTDOCTORAL POSITION available to study structure and interaction of proteins and peptides. Experience in NMR, CD, EPR, IR and ELISA, mutagenesis, protein purification preferred. Send curriculum vitae and three references to: **Ding-Kwo Chang, Institute of Chemistry, Academia Sinica, Taipei, Taiwan, ROC. FAX: 886-2-789-8594.**

WAYNE STATE UNIVERSITY POSTDOCTORAL FELLOWS

Two Postdoctoral/Research Associate positions are available in January 1998 for recent Ph.D. or M.D.-Ph.D. in cellular or molecular biology with interests in signal transduction and cancer invasion of metastasis. The first project involves the signaling mechanism(s) of lipoxygenase-derived bioactive lipids, and the second involves the cloning of a novel lipid molecular receptor and lipoxygenase enzyme binding proteins. The work involves state-of-the-art molecular and cellular biological techniques. Candidates should have experience in one or more of the following areas: molecular biology including cloning, protein-protein interaction, signal transduction, or eicosanoids. Preference will be given to candidates with demonstrated research ability and strong written communication skills. Minimum salary: \$27,000 dependent upon experience. Please send a brief statement of your research interest, capabilities, and goals; curriculum vitae; addresses, FAX/telephone number(s), and three references to: **Dr. Kenneth V. Honn, Professor, 431 Chemistry, Wayne State University, Detroit, MI 48202. E-mail: k.v.honn@wayne.edu.**

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POSTDOCTORAL POSITIONS

City of Hope National Medical Center has two Research Fellow openings for the Mutagenesis Program Project. Position #14463 is for oxidative DNA damage and repair in humans (*Cancer Research* 57:2394-2403, 1997; *Archives Biochem. Biophys.* 338:207-212, 1997). Ligation-mediated PCR will be used to map oxidative DNA damage along human genes at the nucleotide level of resolution. The individual will be key in researching how oxidative DNA damage is related to the formation of certain types of tumors. Position #14496 is for a molecular biology-oriented project to map the frequencies of very rare DNA adducts, their repair rates, and eventually their preselection mutations along the p53 gene. These mutagenesis parameters will be related to the mutational spectrum of p53 mutations in various human tumors to determine what mutagens are responsible for human cancers. Both positions require a Ph.D. in molecular and cellular biology plus experience in PCR technologies, DNA sequencing, DNA mutation, and DNA damage detection technologies. For consideration, please send résumé to: **FAX: 626-301-8448; e-mail: stam@smtplink.coh.org.**

EUROPEAN OPPORTUNITIES

BIOMEDICAL SCIENCES RESEARCH CENTER "A. FLEMING" TWO TENURED POSITIONS

The Biomedical Sciences Research Center "A. Fleming," a newly established research center located near Athens, Greece, is announcing the availability of two tenured positions at the **SCIENTIST** level. The Institute of Immunology is seeking a Scientist with research interests in the molecular and developmental aspects of the immune system and the Institute of Molecular Oncology a scientist with research interests in the mechanisms regulating cell growth. Successful candidates must possess a doctoral degree and should have a distinguished record of accomplishment. Applications should include a cover letter, a copy of the doctoral degree, curriculum vitae and bibliography, the names and addresses of three references, and reprints of five recent original publications. Applications should be received by 10 April 1998 at: **Biomedical Sciences Research Center "A. Fleming", 14-16 Al. Fleming Street, Vari 166 72 Greece. Telephone: +30-1-965-6310-11; FAX: +30-1-965-3934; e-mail: bsrcaf@otenet.gr.**

EUROPEAN OPPORTUNITIES

UNIVERSITY OF MÜNSTER, GERMANY INSTITUTE OF NEUROPATHOLOGY

POSTDOCTORAL POSITION in neuropathology available from April 1998 for a highly motivated M.D. with background in molecular and cellular biology, who is able to set up a research group and plans an academic career in neuropathology. Modern lab space and a young, active neuroscience environment are available. Research interests of the Institute focus on the molecular basis of neurological disorders, gene transfer, and regulated gene expression in the nervous system. Salary is in the range of DM80,000 to 100,000 (BAT IIa). Applicants are invited to send curriculum vitae, list of publications, statement of current and future research plans, and names and addresses of referees to: **Werner Paulus, M.D., Department of Neuropathology, University of Erlangen, Krankenhausstr. 8-10 Erlangen D-91054 Germany. FAX: 49-9131-85-6033.**

ANNOUNCEMENTS

BECKMAN RESEARCH TECHNOLOGY INITIATIVE

The Arnold and Mabel Beckman Foundation announces a new program and invites proposals. The Beckman Foundation Research Technologies Initiative is intended to support the development of new research technologies, directed at leading-edge scientific fields of study, that have similar potential for creating new approaches to the solution of basic research questions.

Awards will be made in the fields of chemistry and the life sciences, broadly interpreted, or for technologies that have clear potential for impacting these fields. "Technology" as used here includes development of new instrumentation and materials as well as novel methods and applications of existing instrumentation and materials. Awards will usually be in the range of \$300,000 to \$500,000 per year over the term of the grant. It is our intent to fund successful proposals for a period of up to five years.

The major criteria for evaluation will be the scientific merit of the proposed research technology; its potential to help solve outstanding problems in the chemical and life sciences; the qualifications of the investigator(s); and the adequacy of available facilities. Appropriate plans for putting new developments into practice, including establishment of facilities for and collaborations with potential users of the technology, will also be considered.

Proposals must originate in academic or other nonprofit research institutions, but collaborations within or among academic institutions, or between academia and industry or government laboratories, are encouraged.

The application process will begin with a preproposal, due no later than April 1, 1998. The first awards will be announced during the spring of 1999, with funding to begin on or about July 1, 1999.

For detailed information about the Beckman Research Technologies Initiative, please visit our website: **www.beckman-foundation.com.**

REQUEST FOR APPLICATIONS AVAILABLE

The Center for Indoor Air Research, sponsor of scientific research on a broad range of indoor air topics, has available its 1998 Request for Applications booklet. Applications for January 1, 1999 funding must be received by June 1, 1998. For more information on the Center for Indoor Air Research and/or a copy of the Request for Applications booklet, call or write:

**Center for Indoor Air Research
1099 Winterson Road, Suite 280
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Telephone: 410-684-3777
FAX: 410-684-3729
E-mail: ciarinc@aol.com**

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Occasional openings for Academic Researchers, Postdoctorates, Specialists, and Lecturers in our Departments of Developmental and Cell Biology, Ecology and Evolutionary Biology, Molecular Biology and Biochemistry, and Psychobiology, are posted on our website: **http://www.bio.uci.edu/**. Inquiries may also be sent by FAX to: **J. Swenson, School of Biological Sciences, University of California, Irvine, FAX: 714-824-7407.**

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POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** are available to study the regulation of B-cell development and hematopoiesis or the immunodeficiency of aging. A Senior Fellow may attain Research Assistant Professor status in the future. Contact: **Dr. Pamela L. Witte, Division of Immunology and Aging, Department of Cell Biology, Loyola University Medical Center, Maywood, IL 60153. FAX: 708-216-3913; e-mail: pwitte@wpo.it.luc.edu.**

UNIVERSITY OF MIAMI

POSTDOCTORAL POSITION available (at least two years) to study mechanisms of ischemic preconditioning neuroprotection in brain. Studies will include electrophysiological and optical techniques using *in vitro* preparations. Expertise in one the above areas required. Send curriculum vitae and name/telephone of three references to: **Miguel A. Perez-Pinzon, Ph.D., Department of Neurology, University of Miami, 1501 N.W. 9th Avenue, Miami, FL 33136. E-mail: mperez@neuron.med.miami.edu.**

Two **POSTDOCTORAL POSITIONS** available May 1 to study regulation of metabolic and transcriptional responses to inflammation and cytokines. Applicants must be highly motivated and have strong background in molecular biology; experience in cell culture desirable. Send curriculum vitae and names of three references to: **Dr. S. M. Morris, Jr., Department of Molecular Genetics and Biochemistry, University of Pittsburgh, Pittsburgh, PA 15261. An Affirmative Action/Equal Opportunity Employer.**

CONFERENCE

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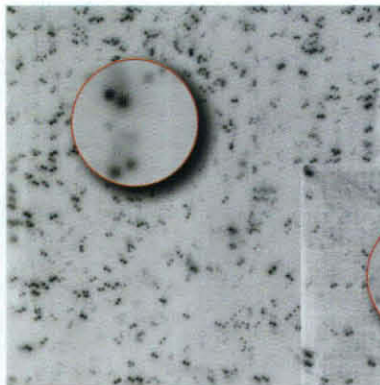
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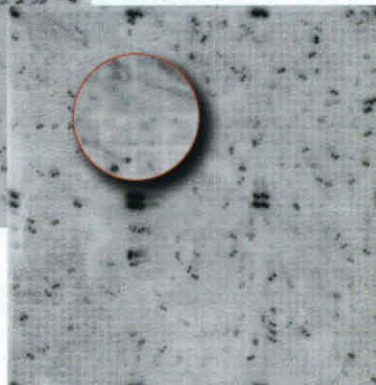
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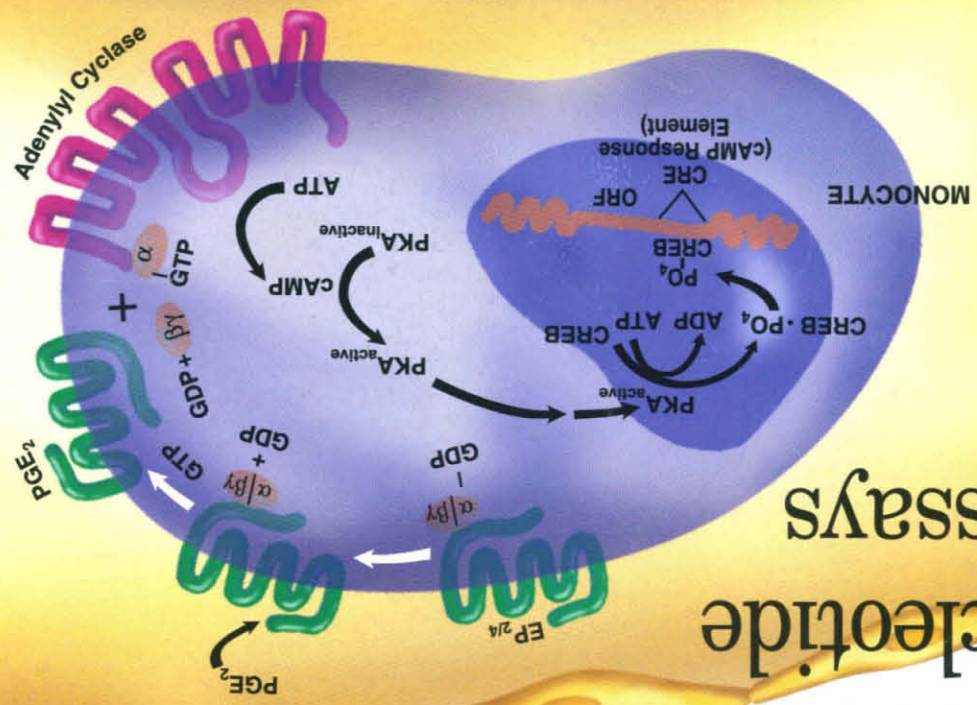
1. "The I.M.A.G.E Consortium: An Integrated Molecular Analysis of Genomes and their Expression", Lennon, G.G., Auffray, C., Polymeropoulos, M., and Soares, M.B. [1995] Genomics.

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